

ALWINTITE

ALUMINUM WINDOWS



- **DOUBLE HUNG WINDOWS**
- **HORIZONTAL SLIDING WINDOWS**
- **PICTURE WINDOWS**
- **VIEWall WINDOWS**
- **SCREENS and STORM SASH**
- **COMBINATION STORM WINDOWS**
- **WINDOW ACCESSORIES**



ALWINTITE

a division of **GENERAL BRONZE CORPORATION**

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ALUMINUM WINDOWS

DOUBLE-HUNG • PICTURE • SLIDING • VIEWall

**for any residence, apartment or hotel
you design or build**

Whether you are designing or building a single residence, a housing development, a large multi-story apartment, or any other type residential or light construction project be sure you select ALWINTITE windows.

ALWINTITE offers you a complete line of aluminum windows to satisfy every building need—double-hung windows, picture windows, horizontal sliding windows, VIEWall windows and Combination storm windows. All are finest quality residential windows, embodying the latest and most advanced features in design, operation and construction. All are made by the foremost manufacturer of aluminum windows in the world today—General Bronze Corporation. All are made from strong extruded aluminum sections, built to give a lifetime of trouble-free service.

Owners and prospective buyers alike will thank you for using ALWINTITE aluminum windows because these are the windows that save many dollars on maintenance expense each year. They cannot rust or rot. They never need painting. They retain their attractive appearance for the life of the building.

With ALWINTITE you also save on construction costs. Initial cost is low. Delivery from warehouse stocks in all areas is prompt. Windows are completely assembled. Installation is quick and easy. There are no "extras" to buy or install, no adjustments or call-backs to make.

For your next job—house, apartment, hotel or housing project—include ALWINTITE windows and you'll assure your clients and customers lifelong, economical window service.

★ ★ ★ ★ ★

In monumental or institutional buildings where double-hung windows using larger sections than those shown in this catalog are required, or where casement, projected or other type windows are needed, please refer to the PERMATITE Window Catalog by General Bronze Corporation in Sweet's Architectural File, Section 16a/GE. See also, GB Revolving Door Catalog, Section 15e/GE and GB Architectural Metalwork Catalog, Section 5e/GE.

**ALWINTITE DIVISION
GENERAL BRONZE CORPORATION
GARDEN CITY, NEW YORK**

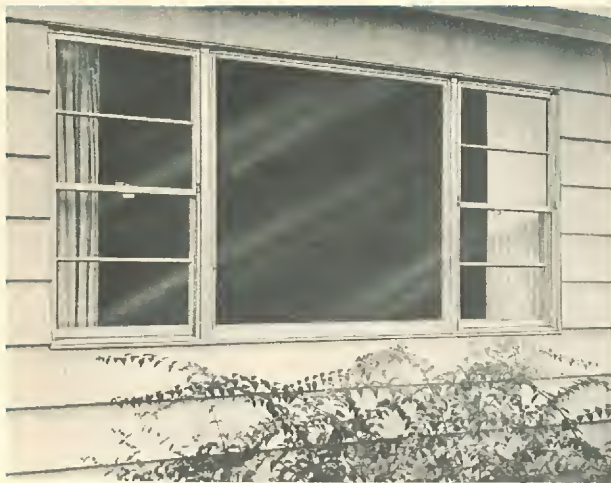


TESTED and
APPROVED
by Pittsburgh Testing
Laboratory

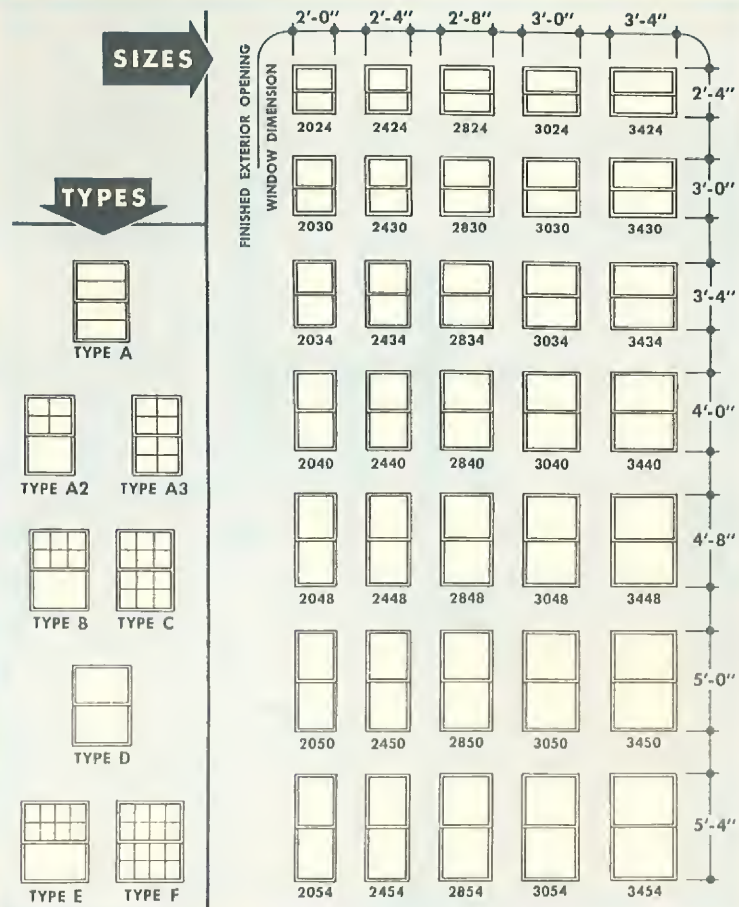


DOUBLE-HUNG WINDOWS

ALWINTITE®



The 4-digit numbers of ALWINTITE double-hung windows indicate the width and height of the finished exterior window opening (window dimension) and not the actual window size. The first and second digits equal the width in feet and inches. The third and fourth digits give the height in feet and inches. For example: Size 2434 indicates a window that is to fit a finished opening 2'4" wide by 3'4" high.



WINDOW AREAS and GLASS SIZES for ALWINTITE DOUBLE-HUNG WINDOWS and STORM SASH

NOTE: Upper and lower sash of double-hung windows have same glass sizes • Upper and lower sash of storm sash have different glass sizes

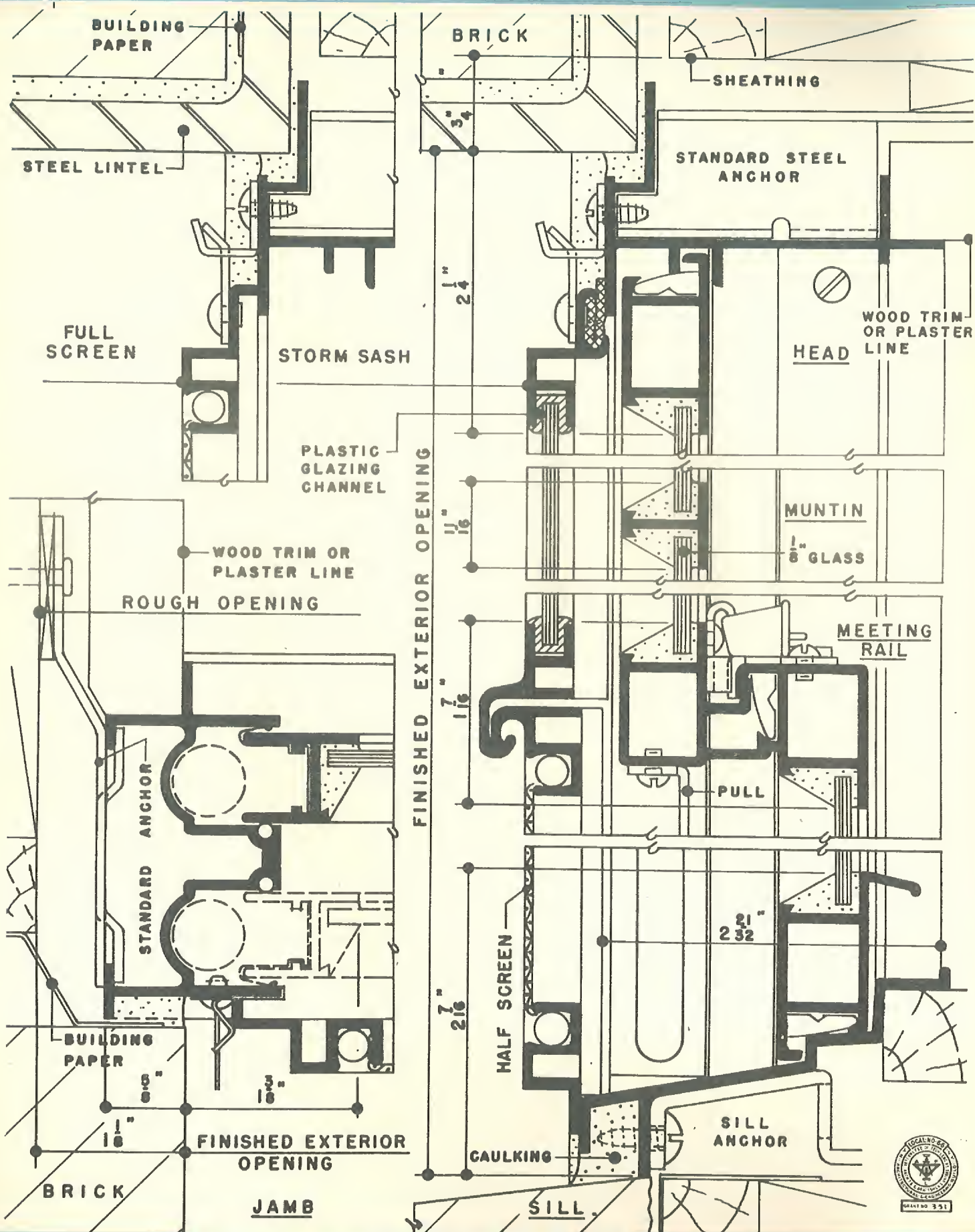
Sizes	Window Area*	1 Light Sash	2 Light Sash	4 Light Sash	6 Light Sash	8 Light Sash	Upper Storm Sash	Lower Storm Sash
2024	3.91 sq. ft.	21 5/8" x	21 5/8" x	10 5/8" x	—	—	21 1/2" x	21 1/2" x
2030	5.17 " "							
2034	5.79 " "							
2040	7.05 " "							
2048	8.31 " "							
2050	8.93 " "	25 5/8" x	25 5/8" x	—	8 5/16" x	—	25 1/2" x	25 1/2" x
2054	9.55 " "							
2424	4.61 " "							
2430	6.08 " "							
2434	6.81 " "							
2440	8.29 " "	29 5/8" x	29 5/8" x	—	9 5/8" x	—	29 1/2" x	29 1/2" x
2448	9.77 " "							
2450	10.50 " "							
2454	11.23 " "							
2824	5.31 " "	33 5/8" x	33 5/8" x	—	11" x	—	33 1/2" x	33 1/2" x
2830	7.00 " "							
2834	7.82 " "							
2840	9.52 " "							
2848	11.23 " "							
2850	12.06 " "	37 5/8" x	37 5/8" x	—	—	9 3/16" x	37 1/2" x	37 1/2" x
2854	12.90 " "							
3024	6.01 " "							
3030	7.92 " "							
3034	8.87 " "							
3040	10.80 " "	—	—	—	—	—	—	—
3048	12.73 " "							
3050	13.68 " "							
3054	14.63 " "							
3424	6.70 " "							
3430	8.84 " "							
3434	9.89 " "							
3440	12.04 " "							
3448	14.19 " "							
3450	15.25 " "							
3454	16.31 " "							

*Area between stop beads

Glass Tolerance + 1/16" - 0

FULL SIZE DETAILS

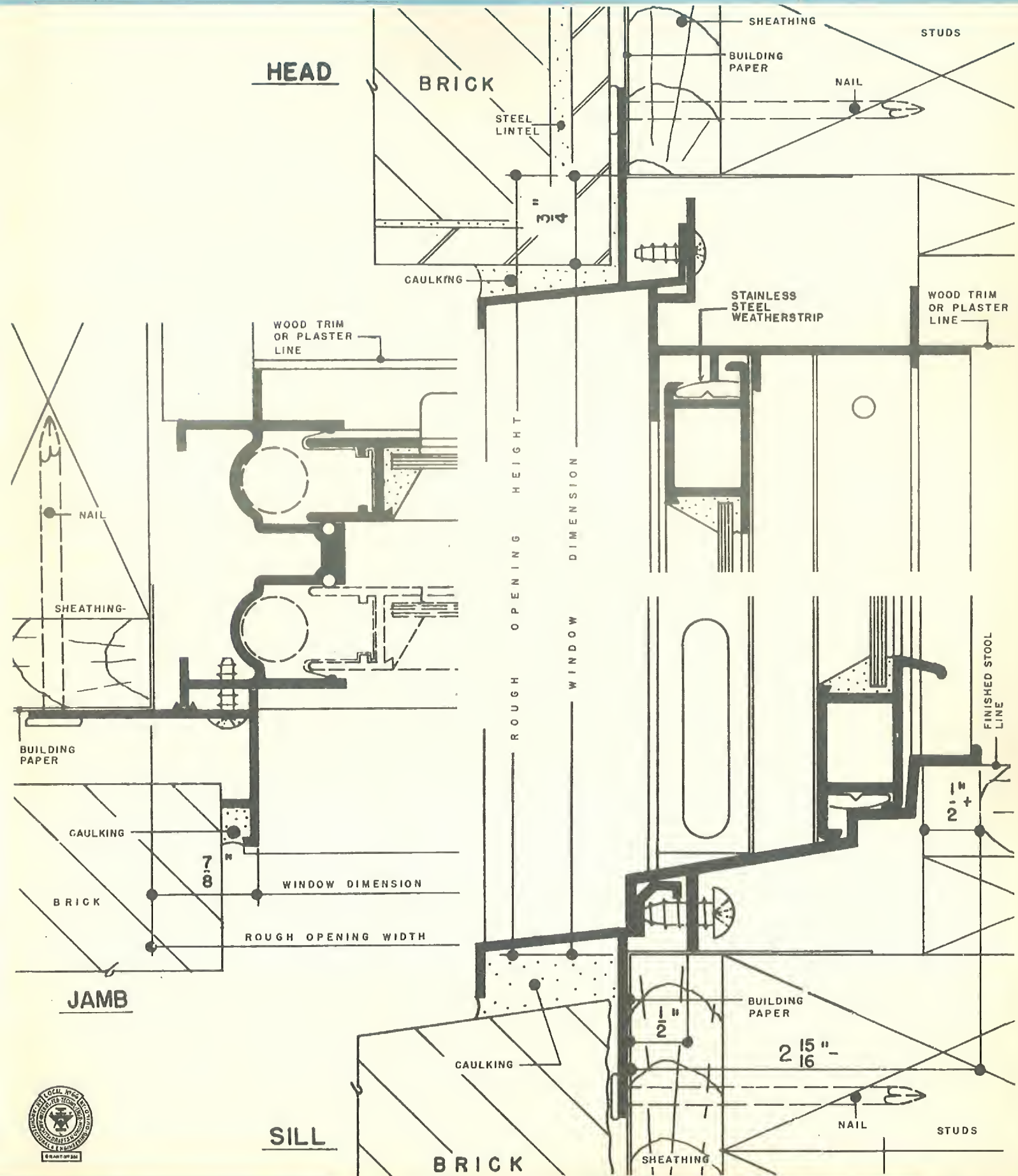
DOUBLE-HUNG WINDOWS WITHOUT FIN-TRIM



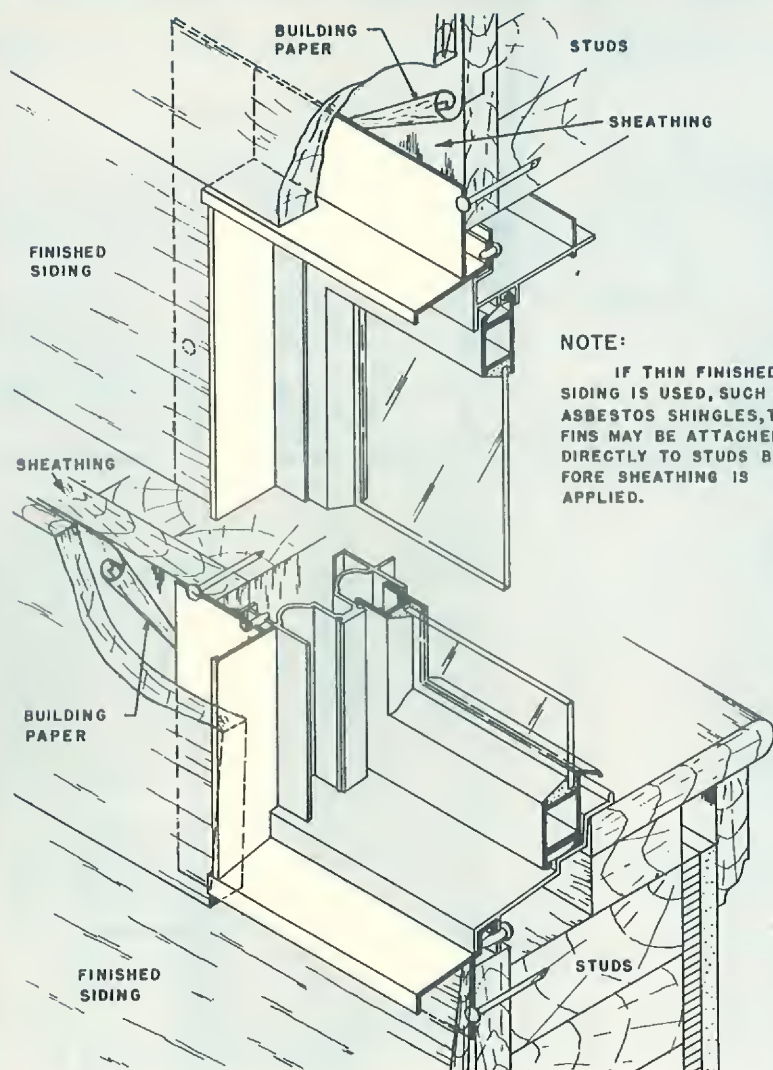
FULL SIZE DETAILS

DOUBLE-HUNG WINDOWS WITH FIN-TRIM

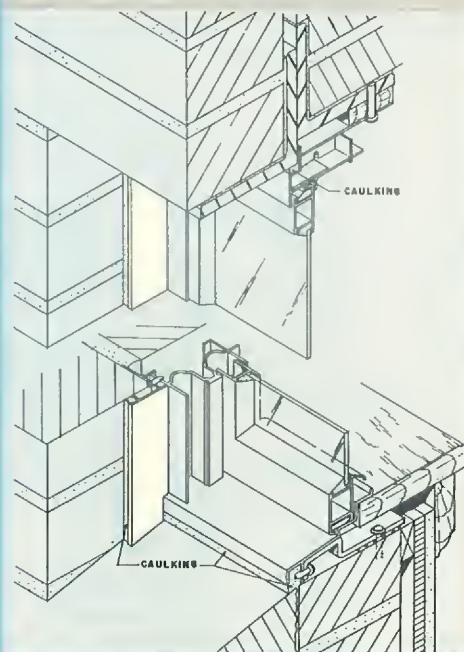
ALWINTITE®



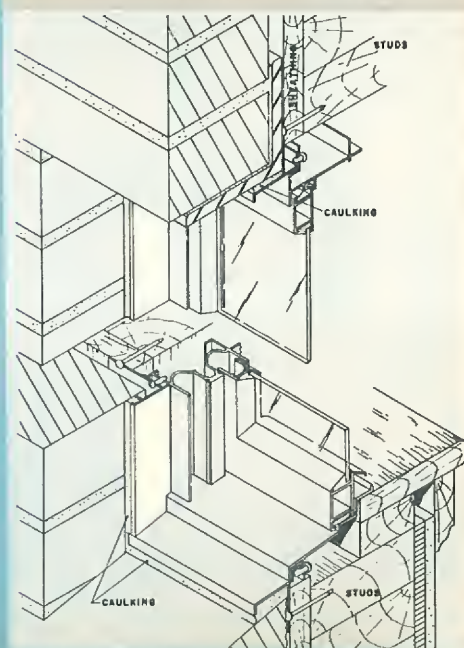
ALWINTITE with FIN-TRIM saves time and labor ... makes installation a matter of seconds



SOLID BRICK CONSTRUCTION



BRICK VENEER CONSTRUCTION



ALWINTITE windows with FIN-TRIM are a real time and labor saver. Installation is easier, faster and more economical because you just set them in position and nail them in. You don't need any exterior wood trim and the whole job actually takes but a matter of seconds.

Think what this will mean in terms of quicker installations, reduced labor, lower material costs. When you order your ALWINTITE windows with FIN-TRIM already attached, there are no accessories to bother with, no special sills, no exterior wood trim or casing to buy . . . or apply. You won't have to paint around the outside of the windows, no matter what kind of siding you use. And what's more, you have a window that's flashed all around—one that gives you a weather-tight installation.

In frame and brick veneer construction, 4 sections of FIN-TRIM are used (2 jamb, 1 head and 1 sill section). In brick construction, however, only the jamb sections are used. (See installation detail drawings on this and the following pages.)

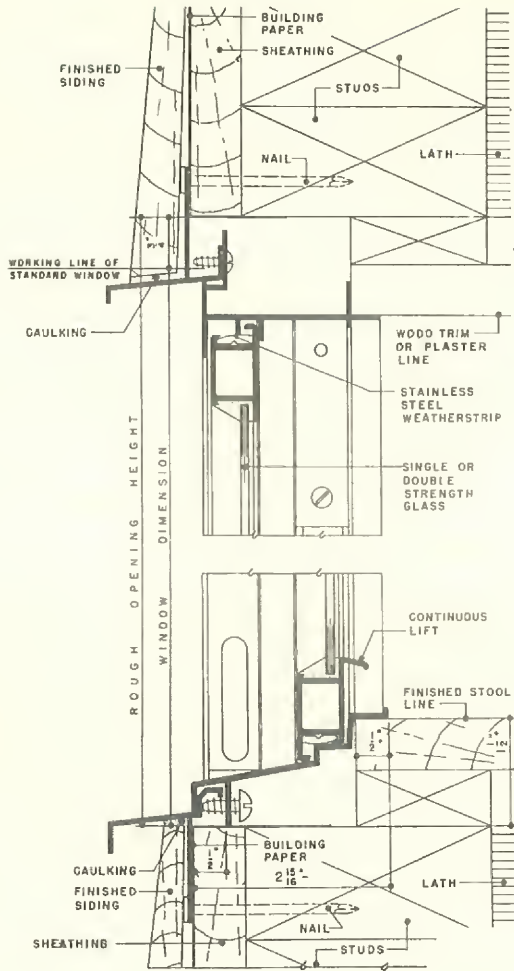
INSTALLATION DETAILS

DOUBLE-HUNG WINDOWS

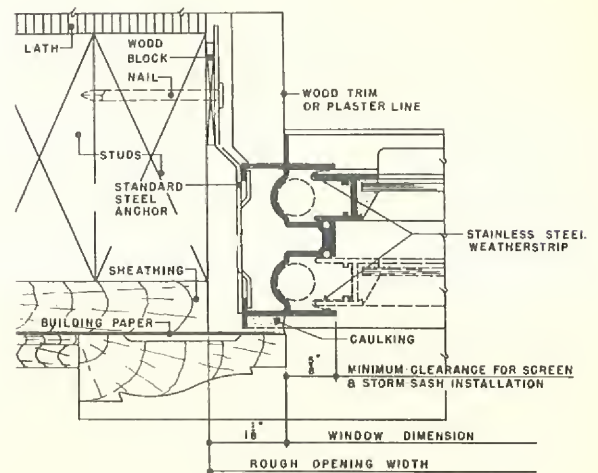
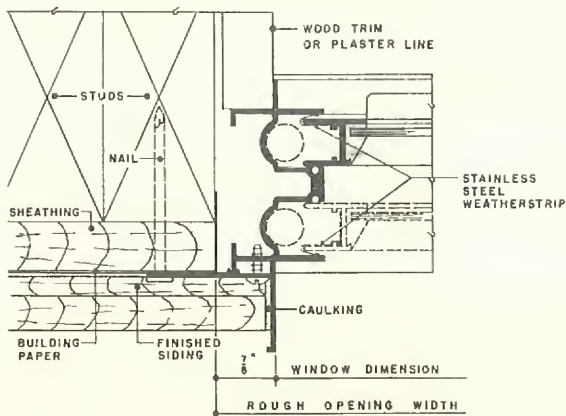
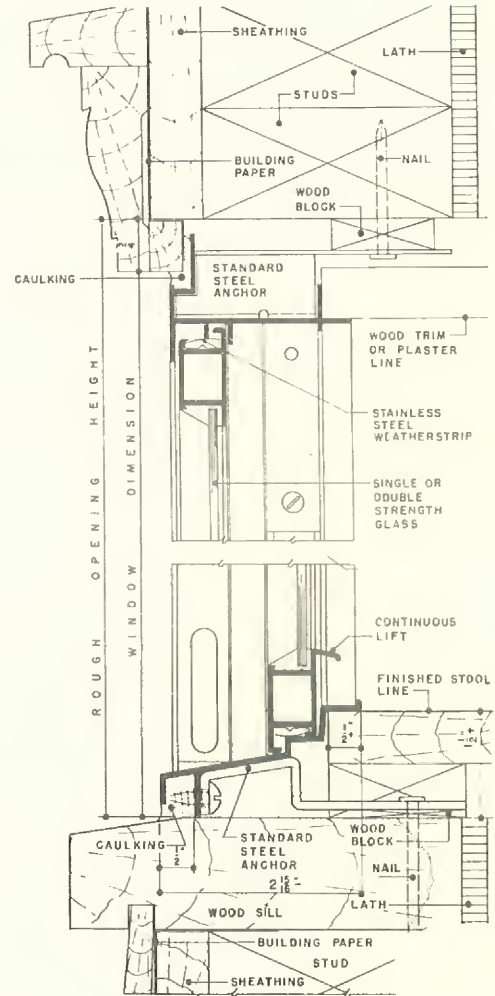
ALWINTITE

FRAME CONSTRUCTION

WITH FIN-TRIM



WITHOUT FIN-TRIM

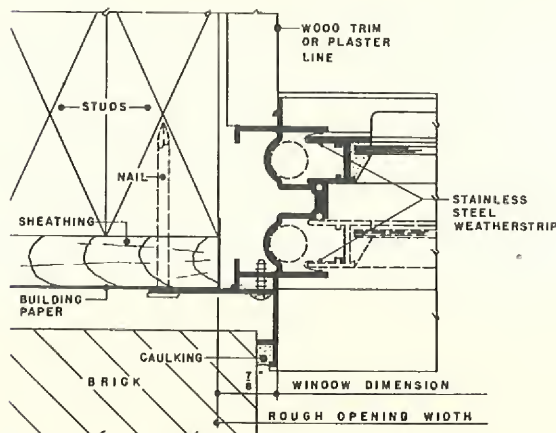
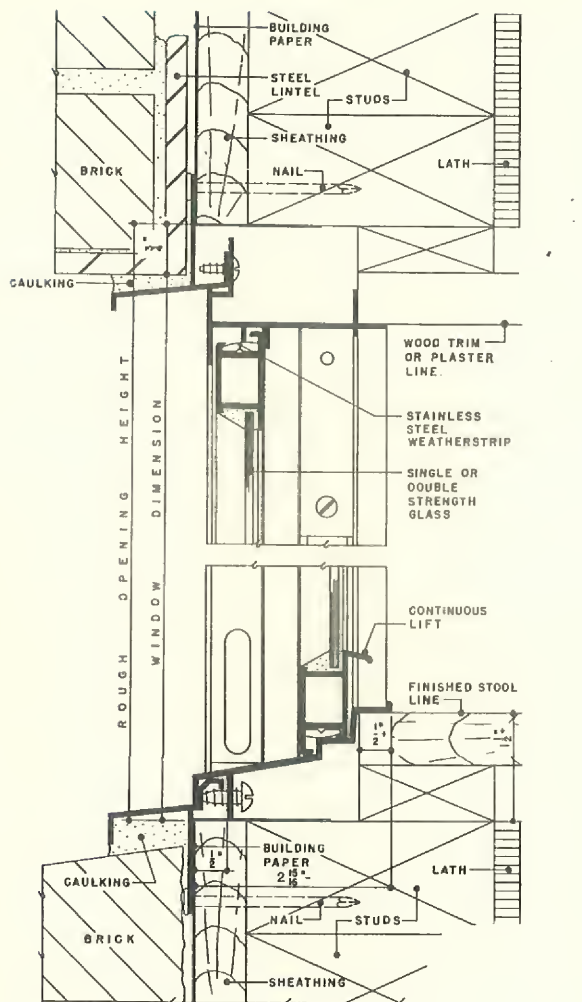


FOR ROUGH OPENING SIZES SEE PAGE 12



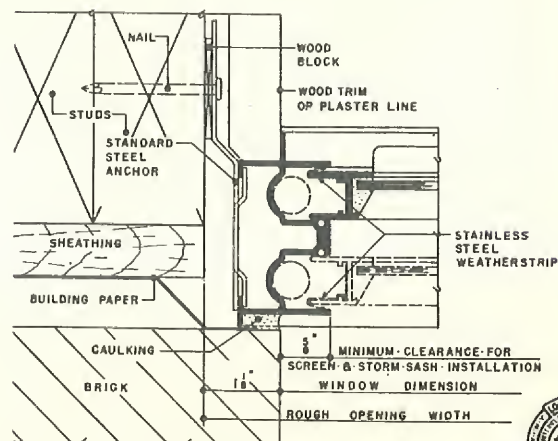
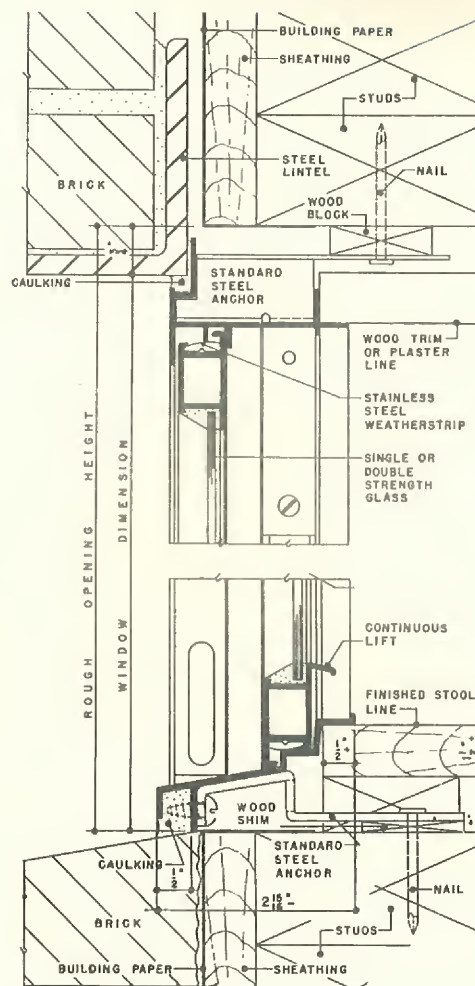
BRICK VENEER CONSTRUCTION

WITH FIN-TRIM



NOTE: This construction provides $\frac{1}{2}$ " to $\frac{3}{8}$ " space between brick and sheathing. If larger space is required insert furring strip between sheathing and fin.

WITHOUT FIN-TRIM

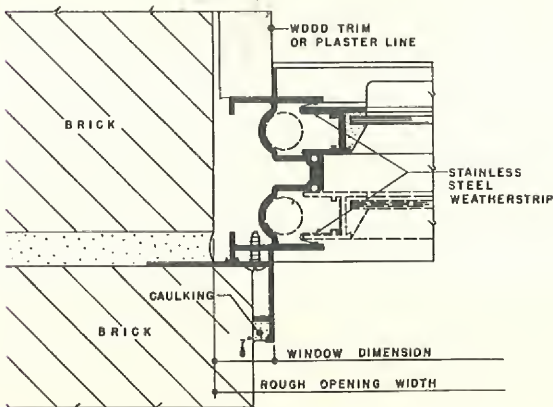
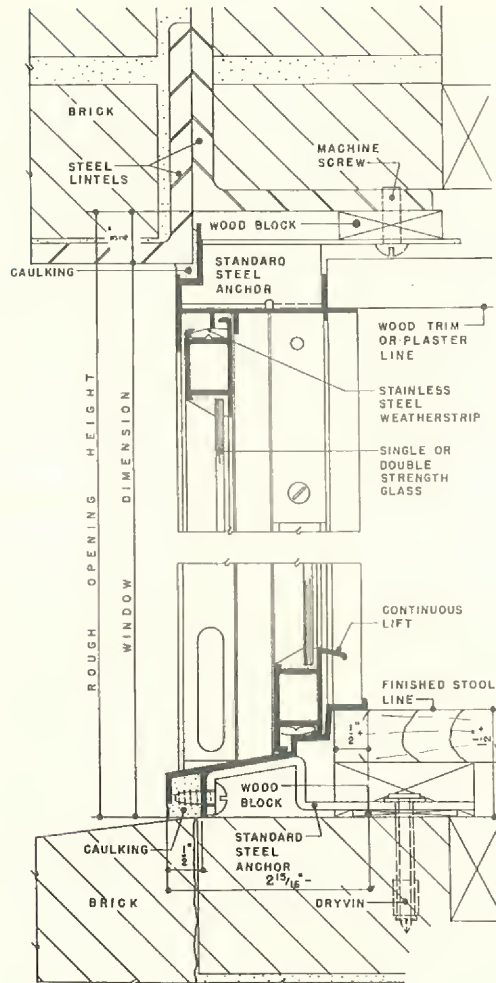


FOR ROUGH OPENING SIZES SEE PAGE 12

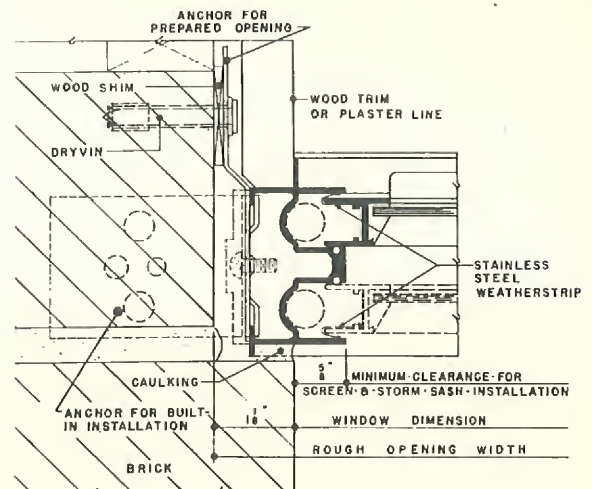
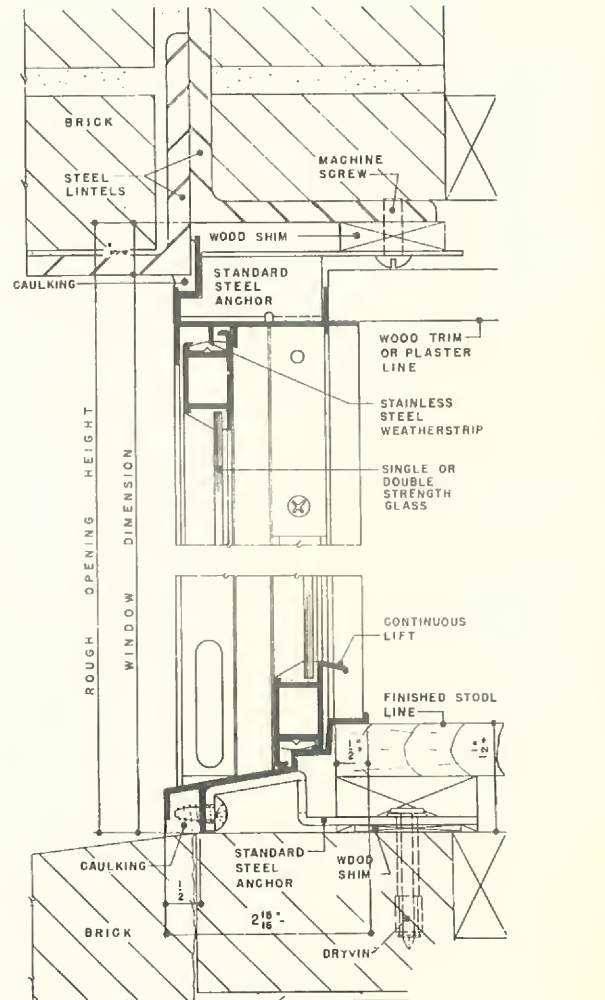


SOLID BRICK CONSTRUCTION

WITH FIN-TRIM AT JAMB



WITHOUT FIN-TRIM

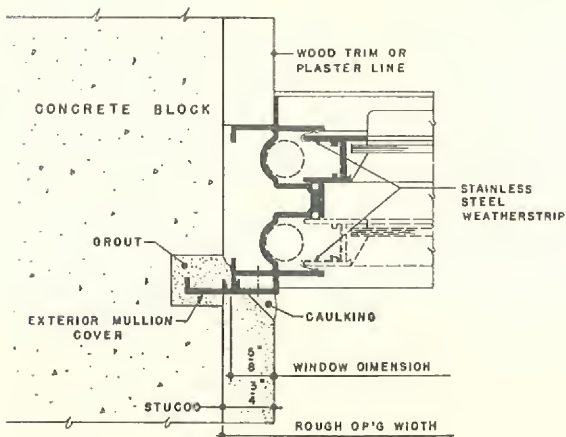
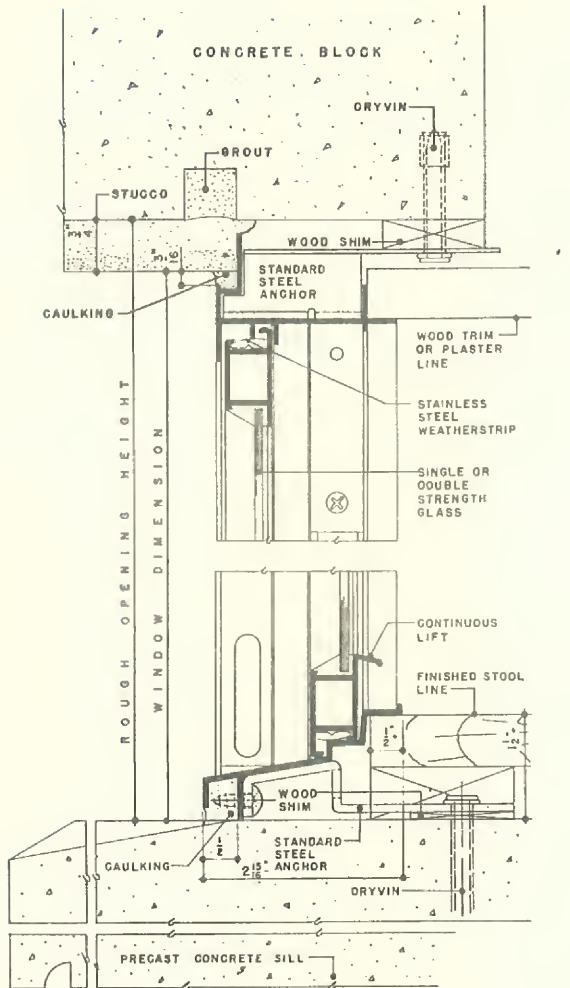


FOR ROUGH OPENING SIZES SEE PAGE 12



CONCRETE BLOCK CONSTRUCTION

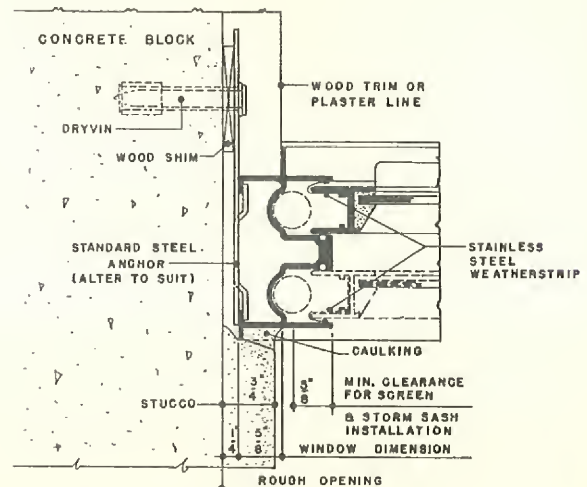
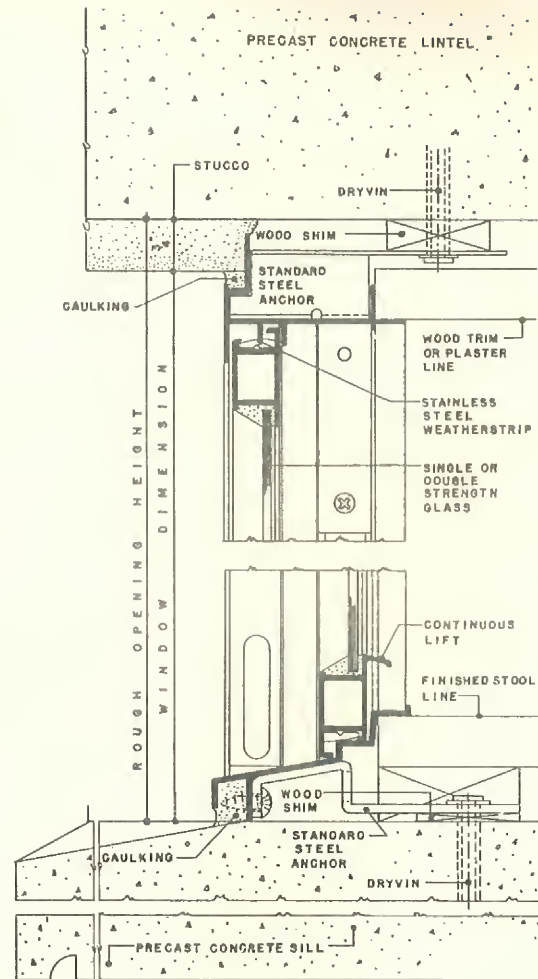
WITH FIN AT JAMB



ROUGH OPENING DIMENSIONS

Height: Add $\frac{3}{4}$ " to window dimension height.
 Width: Add $1\frac{1}{2}$ " to window dimension width.
 For Mullions: Add $1\frac{1}{4}$ " for width of each mullion.

WITHOUT FIN



ROUGH OPENING DIMENSIONS

Height: Add $\frac{3}{4}$ " to window dimension height.
 Width: Add $1\frac{3}{4}$ " to window dimension width.
 For Mullions: Add $1\frac{1}{4}$ " for width of each mullion.



PICTURE WINDOWS (PANORAMA WINDOWS)

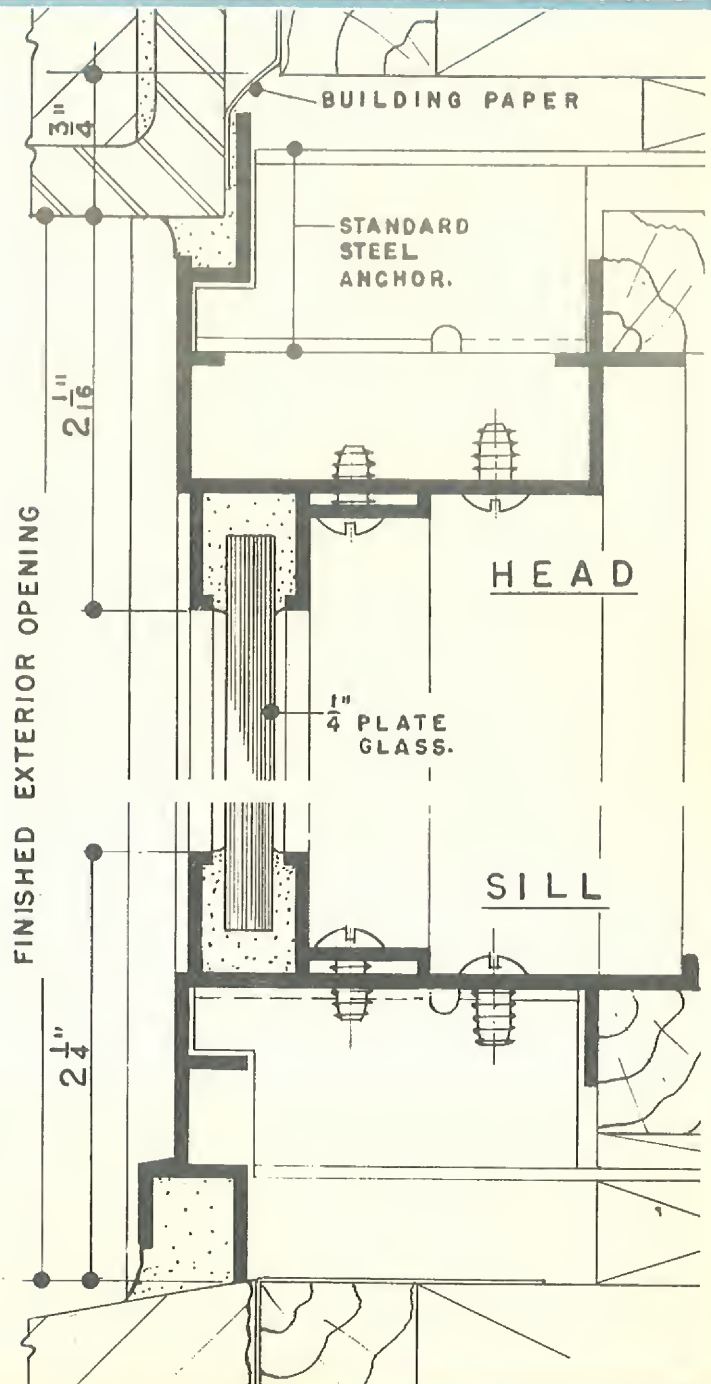
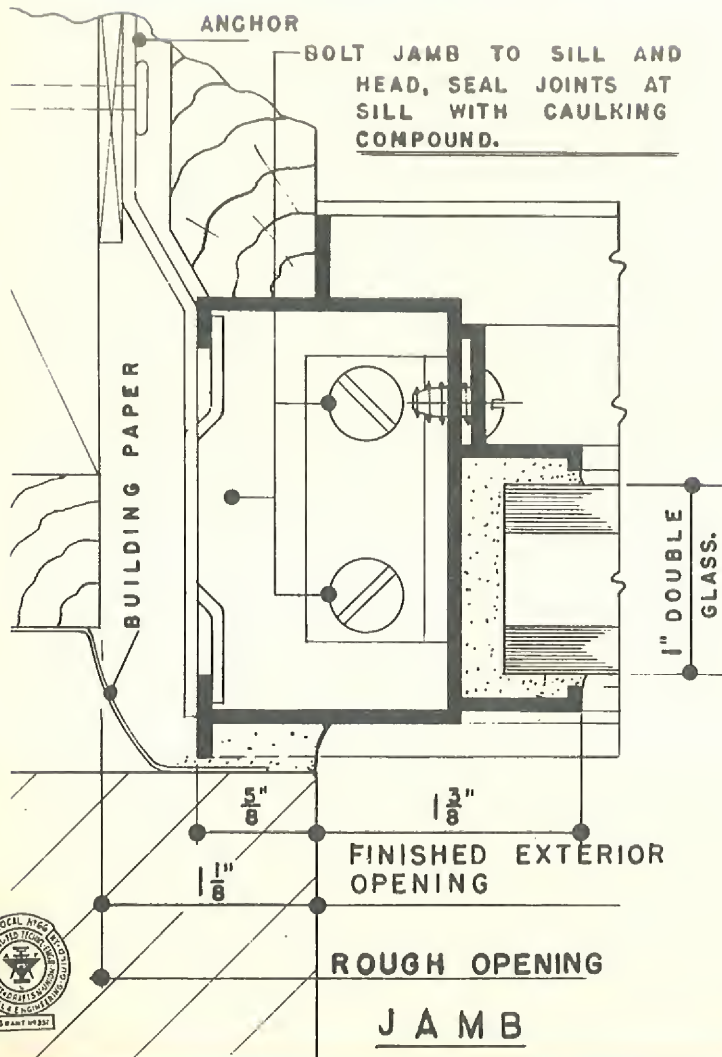
ALWINTITE®

FINISHED EXTERIOR OPENING WINDOW DIMENSION	4'-0"	5'-0"	6'-0"
4024	5024	6024	2'-4"
4030	5030	6030	3'-0"
4034	5034	6034	3'-4"
4040	5040	6040	4'-0"
4048	5048	6048	4'-8"
4050	5050	6050	5'-0"
4054	5054	6054	5'-4"

ALWINTITE aluminum picture (panorama) windows can be used independently or combined with Alwintite double-hung windows. They accommodate either 1/4" plate glass or 1" double glass of the "Thermopane" or "Twindow" type.

SCHEDULE OF GLASS SIZES — Tolerance + 3/16" — 1/16"

4024... 46 1/8" x 24 1/2"	5024... 58 1/8" x 24 1/2"	6024... 70 1/8" x 24 1/2"
4030... 46 1/8" x 32 1/2"	5030... 58 1/8" x 32 1/2"	6030... 70 1/8" x 32 1/2"
4034... 46 1/8" x 36 1/2"	5034... 58 1/8" x 36 1/2"	6034... 70 1/8" x 36 1/2"
4040... 46 1/8" x 44 1/2"	5040... 58 1/8" x 44 1/2"	6040... 70 1/8" x 44 1/2"
4048... 46 1/8" x 52 1/2"	5048... 58 1/8" x 52 1/2"	6048... 70 1/8" x 52 1/2"
4050... 46 1/8" x 56 1/2"	5050... 58 1/8" x 56 1/2"	6050... 70 1/8" x 56 1/2"
4054... 46 1/8" x 60 1/2"	5054... 58 1/8" x 60 1/2"	6054... 70 1/8" x 60 1/2"



ROUGH OPENING SIZES FOR DOUBLE-HUNG WINDOWS
IN FRAME, BRICK VENEER AND SOLID BRICK CONSTRUCTION

WITH FIN-TRIM

WINDOW NUMBER	SINGLE WIDTH	DOUBLE WIDTH	TRIPLE WIDTH	QUADRUPLE WIDTH	QUINTUPLE WIDTH	HEIGHT
2024	2'-1 3/4"	4'-3"	6'-4 1/4"	8'-5 1/2"	10'-6 3/4"	2'-4 3/4"
2030						3'-0 3/4"
2034						3'-4 3/4"
2040						4'-0 3/4"
2048						4'-8 3/4"
2050						5'-0 3/4"
2054						5'-4 3/4"
2424	2'-5 3/4"	4'-11"	7'-4 1/4"	9'-9 1/2"	12'-2 3/4"	2'-4 3/4"
2430						3'-0 3/4"
2434						3'-4 3/4"
2440						4'-0 3/4"
2448						4'-8 3/4"
2450						5'-0 3/4"
2454						5'-4 3/4"
2824	2'-9 1/4"	5'-7"	8'-4 1/4"	11'-1 1/2"	13'-10 3/4"	2'-4 3/4"
2830						3'-0 3/4"
2834						3'-4 3/4"
2840						4'-0 3/4"
2848						4'-8 3/4"
2850						5'-0 3/4"
2854						5'-4 3/4"
3024	3'-1 3/4"	6'-3"	9'-4 1/4"	12'-5 1/2"	15'-6 3/4"	2'-4 3/4"
3030						3'-0 3/4"
3034						3'-4 3/4"
3040						4'-0 3/4"
3048						4'-8 3/4"
3050						5'-0 3/4"
3054						5'-4 3/4"
3424	3'-5 3/4"	6'-11"	10'-4 1/4"	13'-9 1/2"	17'-2 3/4"	2'-4 3/4"
3430						3'-0 3/4"
3434						3'-4 3/4"
3440						4'-0 3/4"
3448						4'-8 3/4"
3450						5'-0 3/4"
3454						5'-4 3/4"

WITHOUT FIN-TRIM

WINDOW NUMBER	SINGLE WIDTH	DOUBLE WIDTH	TRIPLE WIDTH	QUADRUPLE WIDTH	QUINTUPLE WIDTH	HEIGHT
2024	2'-2 1/4"	4'-3 1/2"	6'-4 3/4"	8'-6"	10'-7 1/4"	2'-4 3/4"
2030						3'-0 3/4"
2034						3'-4 3/4"
2040						4'-0 3/4"
2048						4'-8 3/4"
2050						5'-0 3/4"
2054						5'-4 3/4"
2424	2'-6 1/4"	4'-11 1/2"	7'-4 1/4"	9'-10"	12'-3 1/4"	2'-4 3/4"
2430						3'-0 3/4"
2434						3'-4 3/4"
2440						4'-0 3/4"
2448						4'-8 3/4"
2450						5'-0 3/4"
2454						5'-4 3/4"
2824	2'-10 1/4"	5'-7 1/2"	8'-4 3/4"	11'-2"	13'-11 1/4"	2'-4 3/4"
2830						3'-0 3/4"
2834						3'-4 3/4"
2840						4'-0 3/4"
2848						4'-8 3/4"
2850						5'-0 3/4"
2854						5'-4 3/4"
3024	3'-2 1/4"	6'-3 1/2"	9'-4 3/4"	12'-6"	15'-7 1/4"	2'-4 3/4"
3030						3'-0 3/4"
3034						3'-4 3/4"
3040						4'-0 3/4"
3048						4'-8 3/4"
3050						5'-0 3/4"
3054						5'-4 3/4"
3424	3'-6 1/4"	6'-11 1/2"	10'-4 3/4"	13'-10"	17'-3 1/4"	2'-4 3/4"
3430						3'-0 3/4"
3434						3'-4 3/4"
3440						4'-0 3/4"
3448						4'-8 3/4"
3450						5'-0 3/4"
3454						5'-4 3/4"

NOTE: The first two numbers of a unit indicate in feet and inches the Finished Exterior Opening width. The last two numbers of a unit indicate in feet and inches the Finished Exterior Opening Height. Example: Unit No. 2434 - Finished Exterior Opening (Window Dimension) is 2'-4" wide by 3'-4" high.

ROUGH OPENING SIZES FOR PICTURE WINDOWS
IN FRAME, BRICK VENEER AND SOLID BRICK CONSTRUCTION

WITH FIN-TRIM

WINDOW NUMBER	SINGLE WIDTH	WIDTH INCLUDING ONE DOUBLE-HUNG WINDOW EACH SIDE				HEIGHT
		2'-0" Side Wds.	2'-4" Side Wds.	2'-8" Side Wds.	3'-0" Side Wds.	
4024	4'-1 3/4"	8'-4 1/4"	9'-0 1/4"	9'-8 1/4"	10'-4 1/4"	2'-4 3/4"
4030						3'-0 3/4"
4034						3'-4 3/4"
4040						4'-0 3/4"
4048						4'-8 3/4"
4050						5'-0 3/4"
4054						5'-4 3/4"
5024	5'-1 3/4"	9'-4 1/4"	10'-0 1/4"	10'-8 1/4"	11'-4 1/4"	2'-4 3/4"
5030						3'-0 3/4"
5034						3'-4 3/4"
5040						4'-0 3/4"
5048						4'-8 3/4"
5050						5'-0 3/4"
5054						5'-4 3/4"
6024	6'-1 3/4"	10'-4 1/4"	11'-0 1/4"	11'-8 1/4"	12'-4 1/4"	2'-4 3/4"
6030						3'-0 3/4"
6034						3'-4 3/4"
6040						4'-0 3/4"
6048						4'-8 3/4"
6050						5'-0 3/4"
6054						5'-4 3/4"

WITHOUT FIN-TRIM

WINDOW NUMBER	SINGLE WIDTH	WIDTH INCLUDING ONE DOUBLE-HUNG WINDOW EACH SIDE				HEIGHT
		2'-0" Side Wds.	2'-4" Side Wds.	2'-8" Side Wds.	3'-0" Side Wds.	
4024	4'-2 1/4"	8'-4 3/4"	9'-0 3/4"	9'-8 3/4"	10'-4 3/4"	2'-4 3/4"
4030						3'-0 3/4"
4034						3'-4 3/4"
4040						4'-0 3/4"
4048						4'-8 3/4"
4050						5'-0 3/4"
4054						5'-4 3/4"
5024	5'-2 1/4"	9'-4 3/4"	10'-0 3/4"	10'-8 3/4"	11'-4 3/4"	2'-4 3/4"
5030						3'-0 3/4"
5034						3'-4 3/4"
5040						4'-0 3/4"
5048						4'-8 3/4"
5050						5'-0 3/4"
5054						5'-4 3/4"
6024	6'-2 1/4"	10'-4 3/4"	11'-0 3/4"	11'-8 3/4"	12'-4 3/4"	2'-4 3/4"
6030						3'-0 3/4"
6034						3'-4 3/4"
6040						4'-0 3/4"
6048						4'-8 3/4"
6050						5'-0 3/4"
6054						5'-4 3/4"

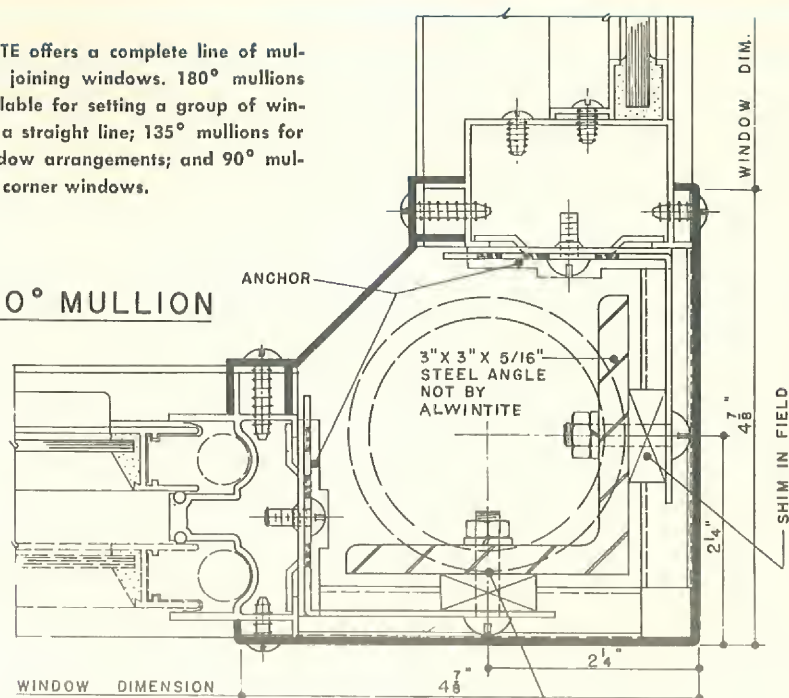
MULLION DETAILS

DOUBLE-HUNG WINDOWS

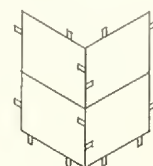
ALWINTITE®

ALWINTITE offers a complete line of mullions for joining windows. 180° mullions are available for setting a group of windows in a straight line; 135° mullions for bay window arrangements; and 90° mullions for corner windows.

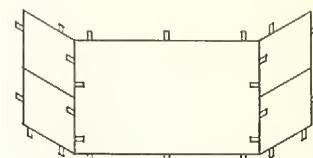
90° MULLION



NOTE: FOR A 90° MULLION CONDITION USING STRUCTURAL ANGLE, ANGLE TO BE DRILLED IN FIELD WITH CLEAR HOLE FOR 1/4-20 MACHINE SCREW, LOCK WASHER AND NUT



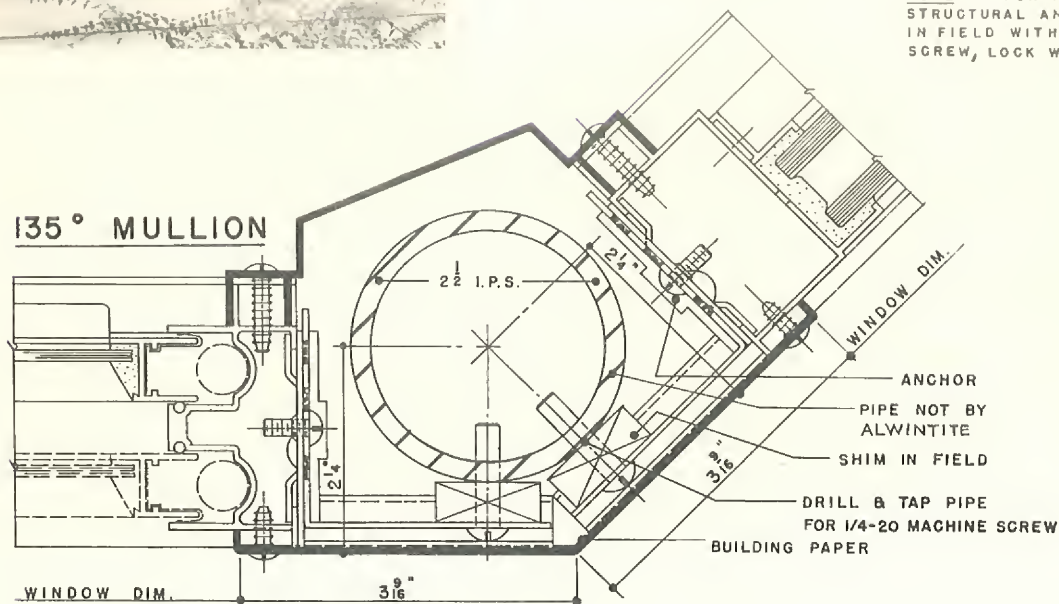
90° MULLION



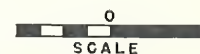
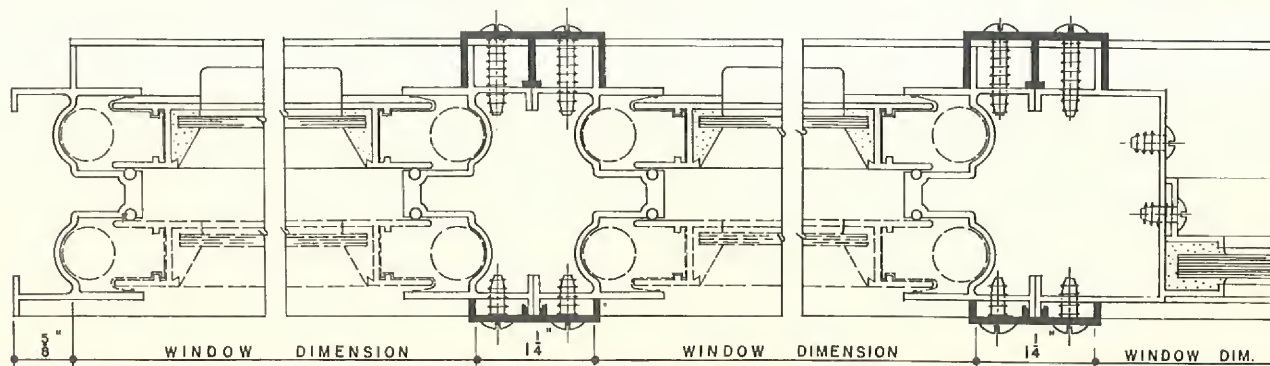
135° MULLION

ANCHOR DIAGRAM

135° MULLION



180° MULLIONS



SCREENS AND STORM SASH FOR DOUBLE-HUNG WINDOWS



ALWINTITE offers full-length, 2-piece and half-length screens, as well as storm sash in 2 sections (upper and lower units) to fit all sizes Alwintite double-hung windows.

The half-screen is interchangeable with the lower section of the storm sash so that the home-owner may use these as a combination unit. This arrangement permits complete air circulation under all weather conditions.

ALWINTITE double-hung windows are supplied with all necessaryappings for attaching screen and storm sash hardware and fittings

SNAP-ON GLAZING BEADS

ALWINTITE Snap-on Glazing Bead is an aluminum strip designed to cover exterior glazing compound. Having the same type finish as the window, the glazing bead harmonizes with the superior Alwintite quality design and adds to the general attractiveness of the completed window. As their name implies, Alwintite Snap-on Glazing Beads readily snap into position in the glazing trough.

SPECIFICATIONS

ALUMINUM DOUBLE-HUNG WINDOWS

General: The double-hung windows shown on the architect's drawings shall be of the "Alwintite" aluminum series DHA-O, as manufactured by General Bronze Corporation (Alwintite Division), Garden City, N. Y. The windows are to be completely fitted and assembled with weatherstripping and hardware and ready for installation and glazing as hereinafter specified.

Materials: The windows shall be manufactured from 63S-T5 extruded aluminum alloy having a minimum thickness of .062 inch; except the sill which is to be of .080 inch minimum thickness. The members of the window shall conform to the strength requirements of the Aluminum Window Manufacturers Association.

Construction: Joints of the frame and sash members shall be neatly fitted to a hairline, securely connected, and absolutely weather-tight. Muntin bars if required shall be firmly secured at inter-sections and to abutting sash members. Sash are to be designed for outside glazing. Keyways to receive and retain the glazing clips and glazing compound are to be extruded integral with the sash members and muntins. Mullions are to be furnished as required.

Hardware: The window is to be equipped with four adjustable sash balances; continuous lift extruded integral with the bottom rail of the lower sash; pull down handle on underside of upper sash; stainless steel locking device; bumpers as required for upper and lower sash; glazing clips, and steel anchors coated with an insulating paint.

Weatherstripping: Each sash is to be equipped with stainless steel weatherstripping around its entire perimeter. The weatherstripping is to be retained in keyways extruded integral with the window members to permit convenient replacement.

Air Infiltration: The infiltration of air through the window shall not exceed one-half cubic foot per minute per linear foot of sash perimeter during a wind of twenty-five miles velocity. Satisfactory evidence of compliance must be furnished to the architect.

Finish: The windows are to be finished in the natural aluminum color. After fabrication, surface blemishes, scratches and tool marks are to be removed and the exposed surfaces are to be cleaned to a uniform color and texture. A protective coating of transparent lacquer is to be applied to the windows before shipment from the factory. The lacquer must be such as will with-

stand the action of lime mortar for a period of at least one month in an atmosphere of 100% relative humidity at room temperature.

Installation: The window manufacturer is to furnish detail drawings for the installation of the windows. The installation contractor shall install the windows straight, plumb and level and securely anchor them in place. After the windows are installed and glazed, they are to be adjusted, if necessary, to insure their efficient operation.

Caulking: The caulking contractor shall apply an approved caulking compound in the caulking rebate between the window frame and the adjacent construction materials. The caulking compound is to be applied with pressure from a suitable caulking gun.

Glazing: The glazing contractor shall furnish a glazing compound approved for the glazing of aluminum windows. The glazing contractor shall, before commencing glazing, remove from the glazing surfaces any material to which the glazing compound will not adhere. (Specify glass to be used which should not exceed one eighth inch nominal thickness.)

OPTIONAL

FIN-TRIM

The jambs, head and sill of the windows are to be equipped with an extruded aluminum Fin-Trim of .062 inch minimum thickness. The Fin-Trim is to be securely attached to the window frame. The head and sill trim are to be omitted for solid masonry construction.

GLAZING BEADS

Aluminum glazing beads of the screwless interlocking type are to be furnished with the windows. The glazing beads are to be rolled aluminum of .020 inch minimum thickness. They are to be installed in accordance with the manufacturer's instructions.

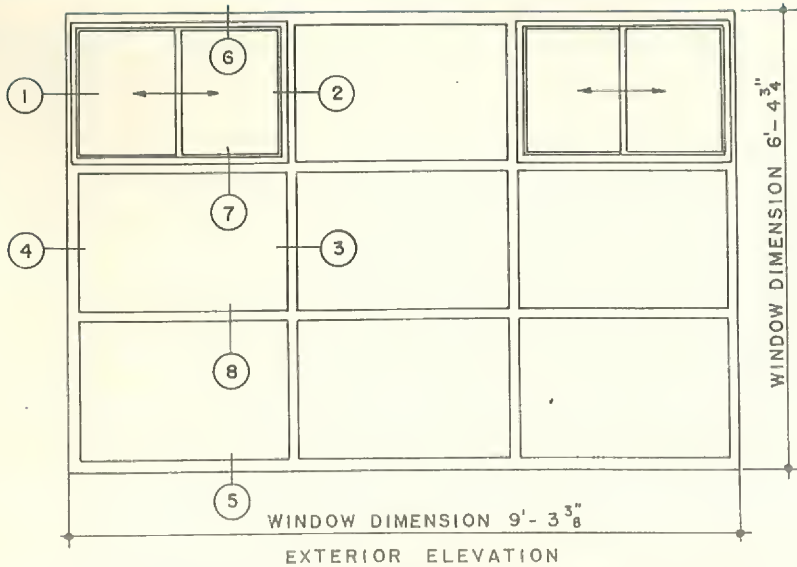
SCREENS AND STORM SASH

The double-hung windows shown on the architect's drawings shall be equipped with "ALWINTITE" aluminum 2-piece storm sash. The window shall be equipped with "ALWINTITE" aluminum full length (or half length) screens—or half length screens interchangeable with lower half of the storm sash, as manufactured by General Bronze Corporation (Alwintite Division), Garden City, N. Y.

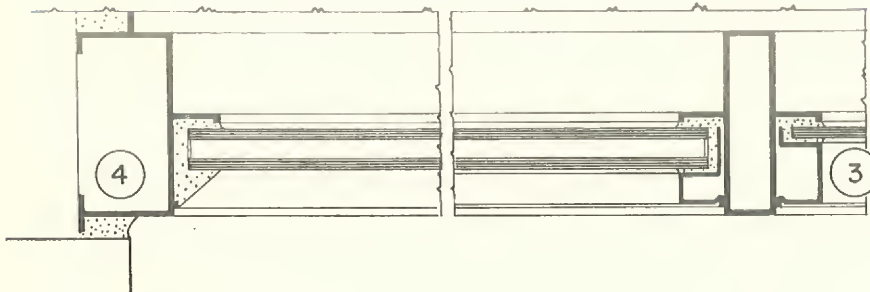
VIEWall WINDOWS

INSTALLATION DETAILS

ALWINTITE®



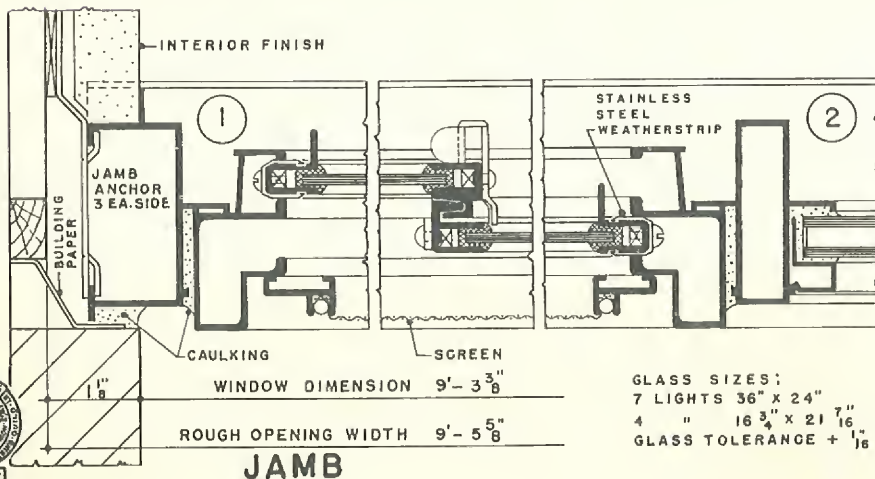
NOTE: ARRANGEMENT OF VENTED OPENINGS (SLIDING WINDOWS) OPTIONAL
(MAY BE INSERTED AFTER VIEWall IS INSTALLED)



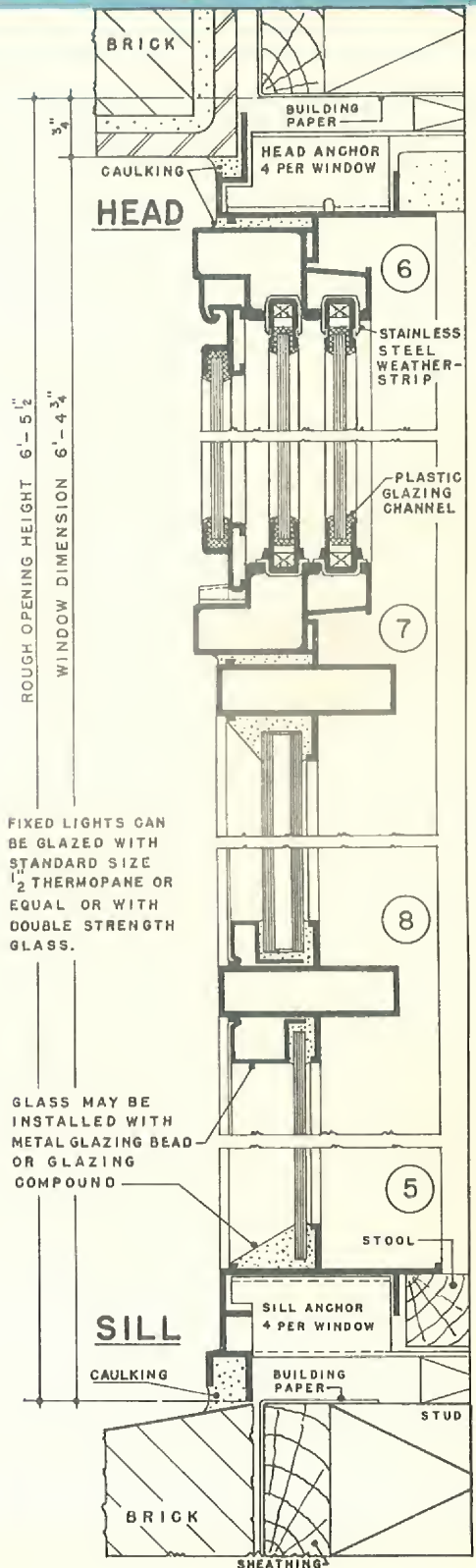
NOTE:

STORM SASH FOR THE SLIDING WINDOWS AND FIXED LIGHTS ARE AVAILABLE.

FOR INSTALLATION WITH FIN-TRIM PLEASE REQUEST
DETAIL DRAWING; FOR OTHER TYPES OF CONSTRUCTION
SEE OUR STANDARD DOUBLE HUNG WINDOW DETAILS.



GLASS SIZES:
7 LIGHTS 36" x 24"
4 " 16 3/4" x 21 7/8"
GLASS TOLERANCE + 1/16" - 0"



FIXED LIGHTS CAN
BE GLAZED WITH
STANDARD SIZE
1/2" THERMOPANE OR
EQUAL OR WITH
DOUBLE STRENGTH
GLASS.

GLASS MAY BE
INSTALLED WITH
METAL GLAZING BEAD
OR GLAZING
COMPOUND

0
SCALE

Most Popular Window in America Today...



Complete inside privacy with eye-level visibility



More usable wall space for furniture



Both sash easily removed for full ventilation and easy cleaning of glass



This is the window that gives you

- Privacy with eye level visibility
- Light weight sash—easily removed for full ventilation or cleaning
- More usable wall space for better furniture arrangement
- Stainless steel weather-stripping
- Plastic glazing channels
- Sliding sash—no straining to open or close
- Easy to install screens and storm sash
- Simple, easy, low-cost installation
- Enthusiastic customer acceptance.

This is the window that has swept the country. Architects, builders, home-buyers, interior decorators rave about its many practical advantages—its many interesting applications. It can be used in all style houses—in all price classes.

The ALWINTITE horizontal sliding window actually makes any house more livable, more attractive, more economical. It gives the home-owner more light, more ventilation and more usable wall space for better furniture arrangement. It provides complete privacy and protection for those inside, yet gives an eye level view of the outside.

You'll like the smart, trim lines of the ALWINTITE sliding windows . . . its quality construction . . . its built-in stainless steel weather-strip . . . its smooth, easy gliding operation . . . its simple money-saving installation . . . its surprising low cost. You can use these windows in many interesting mullioned arrangements as well as for ventilating units in a window panel system. They are available in 15 popular sizes.



ALWINTITE

HORIZONTAL SLIDING WINDOW



... USE THEM SINGLY,
MULLIONED OR IN
WINDOW PANEL
SYSTEMS

FOR BOTH HIGH-PRICED LUXURY HOUSES
AND LOW-COST BUDGET HOUSES

ALWINTITE sliding windows are featured
in the \$30,000 luxury houses (left) by
Klein & Teicholz at Lake Success, N. Y.
and in the \$9,990 popular priced ranch
type houses (below) by Levitt & Sons at
Levittown, Penna.



ALWINTITE HORIZONTAL SLIDING WINDOW SIZE DATA

Unit No.	Window Area*	Window Dimension		Modular Grid Size		Masonry Opening with Fin-Trim		Wood Buck Rabbit Opening Not Modular		Window Glass Size		Storm Sash Glass Size				
		Sq. Ft.	Width	Height	Width	Height	Width	Height	Width	Height	Width	Height	Width	Height		
STANDARD																
11117-S	2.42	1'11"	x	1'7"	—	—	1'11-3/4"	x	1'7-3/4"	1'11-1/8"	x	1'7-1/8"	10-3/16"	x 16-3/8"	21-3/8"	x 17-3/8"
3020-S†	5.17	3'0-1/8"	x	2'0-1/8"	—	—	3'0-7/8"	x	2'0-7/8"	3'0-1/4"	x	2'0-1/4"	16-3/4"	x 21-1/2"	34-1/2"	x 22-1/2"
3921-S†	7.06	3'9-5/8"	x	2'1-5/8"	—	—	3'10-3/8"	x	2'2-3/8"	3'9-3/4"	x	2'1-3/4"	21-1/2"	x 23"	44"	x 24"
MODULAR																
2020-M	3.19	1'11-5/8"	x	1'11-5/8"	2'0"	x 2'0"	2'0-3/8"	x	2'0-3/8"	1'11-3/4"	x	1'11-3/4"	10-1/2"	x 21"	22"	x 22"
3020-M	4.97	2'11-5/8"	x	1'11-5/8"	3'0"	x 2'0"	3'0-3/8"	x	2'0-3/8"	2'11-3/4"	x	1'11-3/4"	16-1/2"	x 21"	34"	x 22"
3030-M	7.76	2'11-5/8"	x	2'11-5/8"	3'0"	x 3'0"	3'0-3/8"	x	3'0-3/8"	2'11-13/16"	x	2'11-3/4"	16-9/16"	x 33"	34"	x 34"
3034-M	8.69	2'11-5/8"	x	3'3-5/8"	3'0"	x 3'4"	3'0-3/8"	x	3'4-3/8"	2'11-13/16"	x	3'3-3/4"	16-9/16"	x 37"	34"	x 38"
3420-M	5.57	3'3-5/8"	x	1'11-5/8"	3'4"	x 2'0"	3'4-3/8"	x	2'0-3/8"	3'3-3/4"	x	1'11-3/4"	18-1/2"	x 21"	38"	x 22"
3434-M	9.73	3'3-5/8"	x	3'3-5/8"	3'4"	x 3'4"	3'4-3/8"	x	3'4-3/8"	3'3-13/16"	x	3'3-3/4"	18-9/16"	x 37"	38"	x 38"
4020-M	6.76	3'11-5/8"	x	1'11-5/8"	4'0"	x 2'0"	4'0-3/8"	x	2'0-3/8"	3'11-3/4"	x	1'11-3/4"	22-1/2"	x 21"	46"	x 22"
4030-M	10.55	3'11-5/8"	x	2'11-5/8"	4'0"	x 3'0"	4'0-3/8"	x	3'0-3/8"	3'11-13/16"	x	2'11-3/4"	22-9/16"	x 33"	46"	x 34"
4034-M	11.81	3'11-5/8"	x	3'3-5/8"	4'0"	x 3'4"	4'0-3/8"	x	3'4-3/8"	3'11-13/16"	x	3'3-3/4"	22-9/16"	x 37"	46"	x 38"
4838-M	15.37	4'7-5/8"	x	3'7-5/8"	4'8"	x 3'8"	4'8-3/8"	x	3'8-3/8"	4'7-13/16"	x	3'7-3/4"	26-9/16"	x 41"	Available	
6020-M	10.33	5'11-5/8"	x	1'11-5/8"	6'0"	x 2'0"	6'0-3/8"	x	2'0-3/8"	5'11-13/16"	x	1'11-3/4"	34-9/16"	x 21"	upon	
6030-M	16.12	5'11-5/8"	x	2'11-5/8"	6'0"	x 3'0"	6'0-3/8"	x	3'0-3/8"	5'11-13/16"	x	2'11-3/4"	34'9/16"	x 33"	Request	
											Glass Tolerance		+ 1/16" — 0		± 1/32"	

S — Standard

M — Modular with Fin-Trim attached

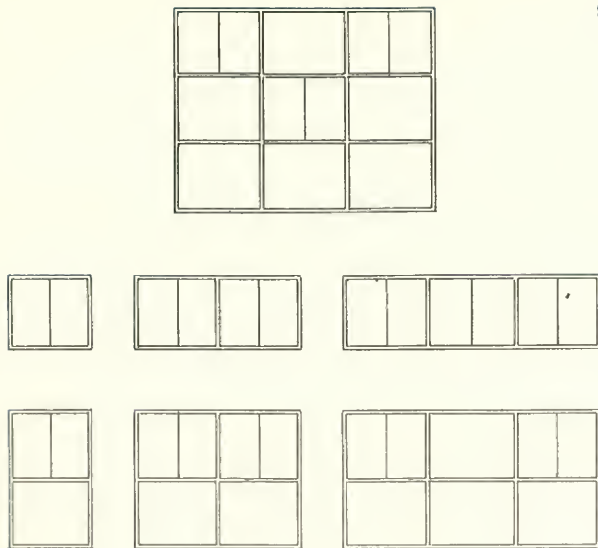
All windows marked M can be used in wood bucks without Fin-Trim.

*Area between stop beads.

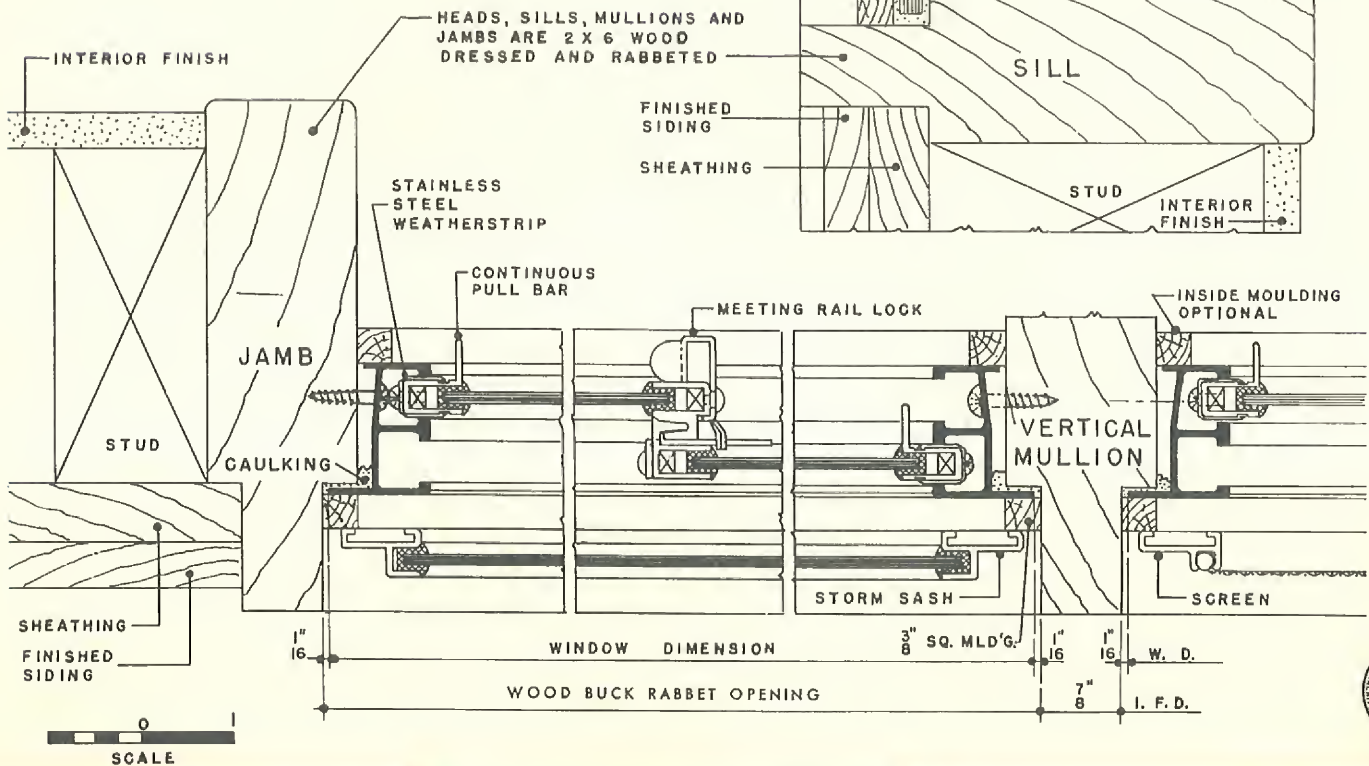
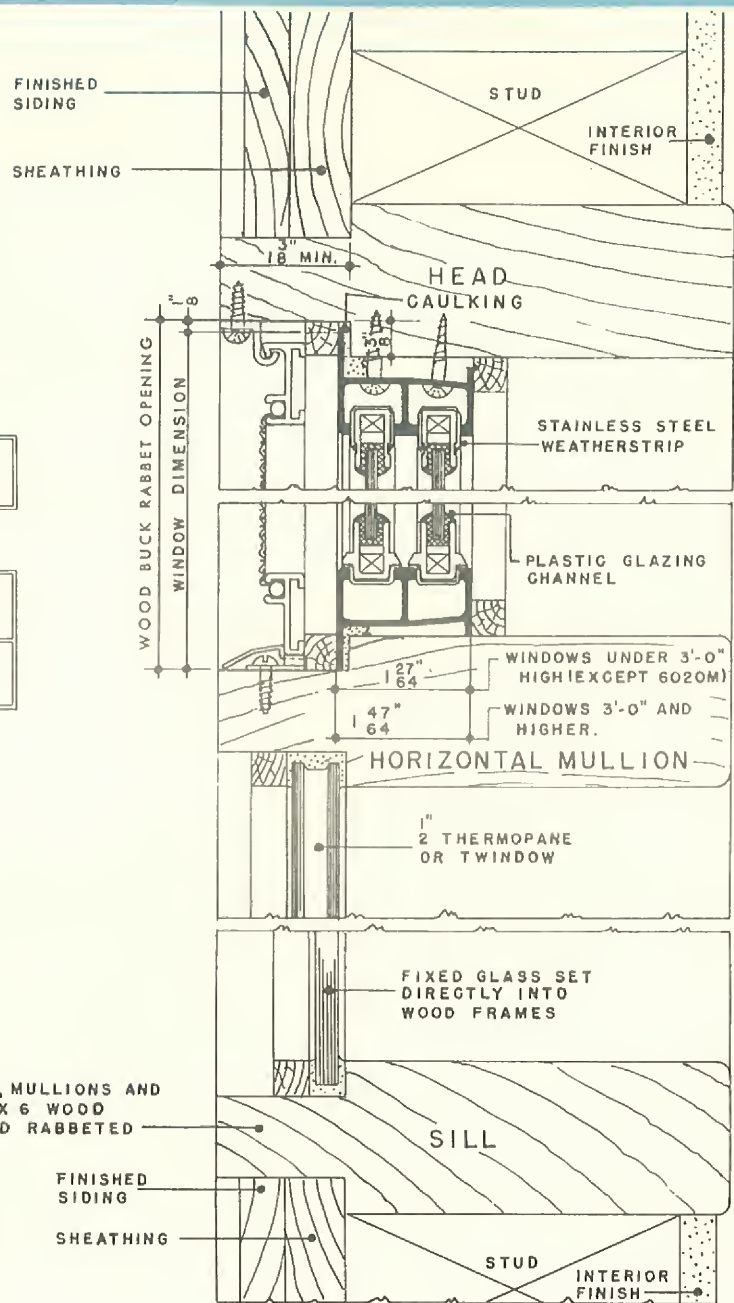
†Also available for double glazing — see page 24.

Note: Modular grid size is the dimension to the center lines of masonry joints nearest to the masonry opening size.

INSTALLATION DETAILS HORIZONTAL SLIDING WINDOWS IN STANDARD WOOD FRAMING

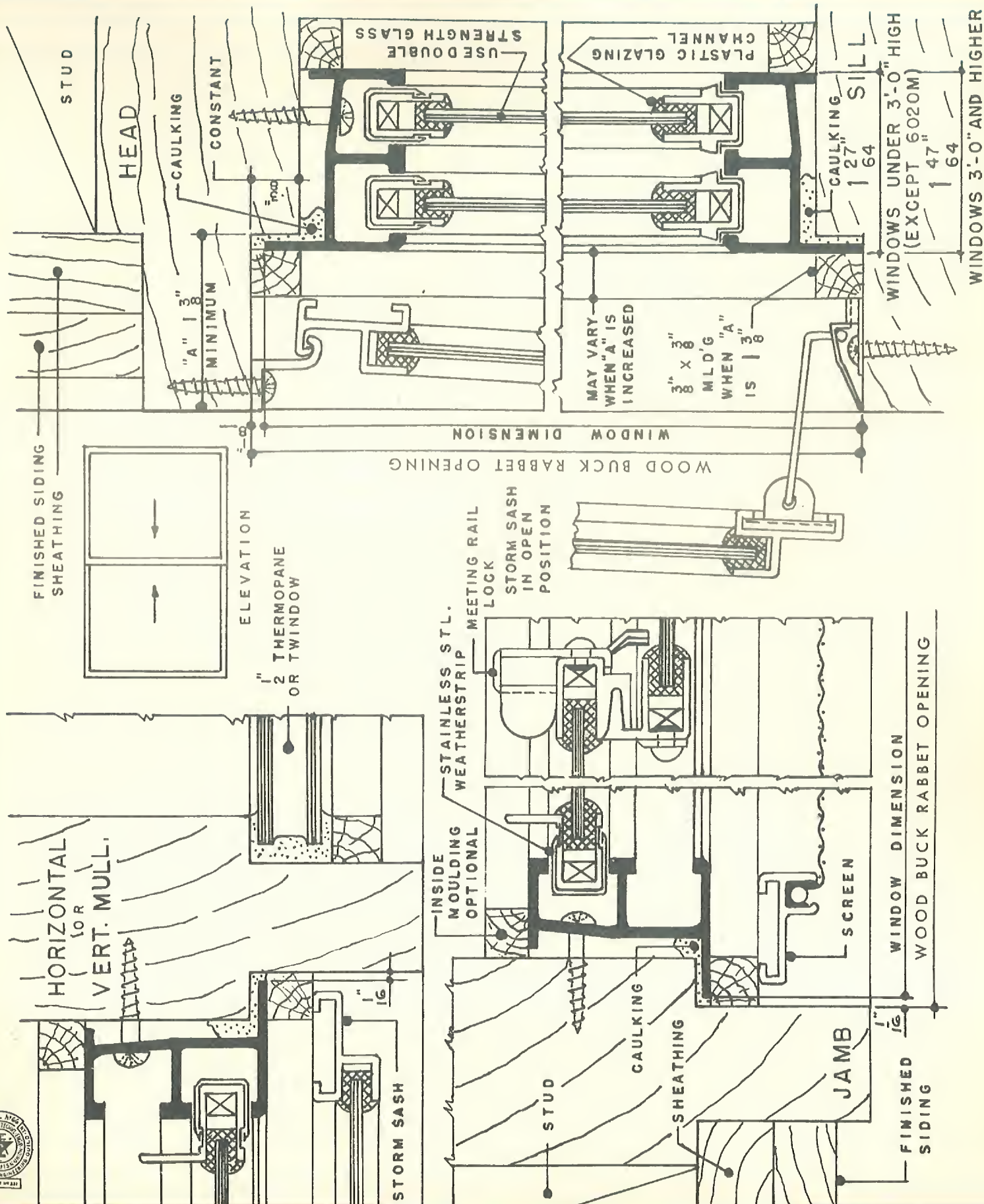


SUGGESTED ARRANGEMENTS
IN PANEL WINDOW SYSTEMS



FULL SIZE DETAILS
HORIZONTAL SLIDING WINDOWS
 IN STANDARD WOOD FRAMING

ALWINTITE®

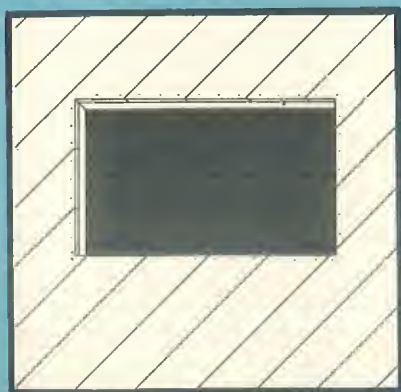


ALWINTITE SLIDING WINDOWS with FIN-TRIM

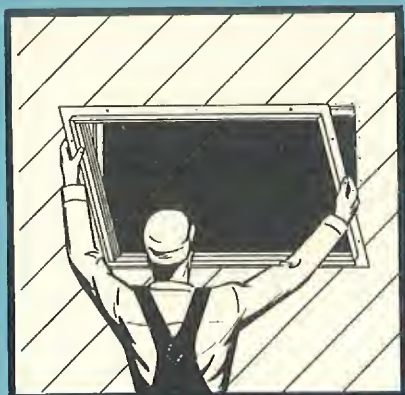
go in Quickly—Easily... Save Time and Labor!



**LOOK
HOW EASILY
IT GOES IN!**



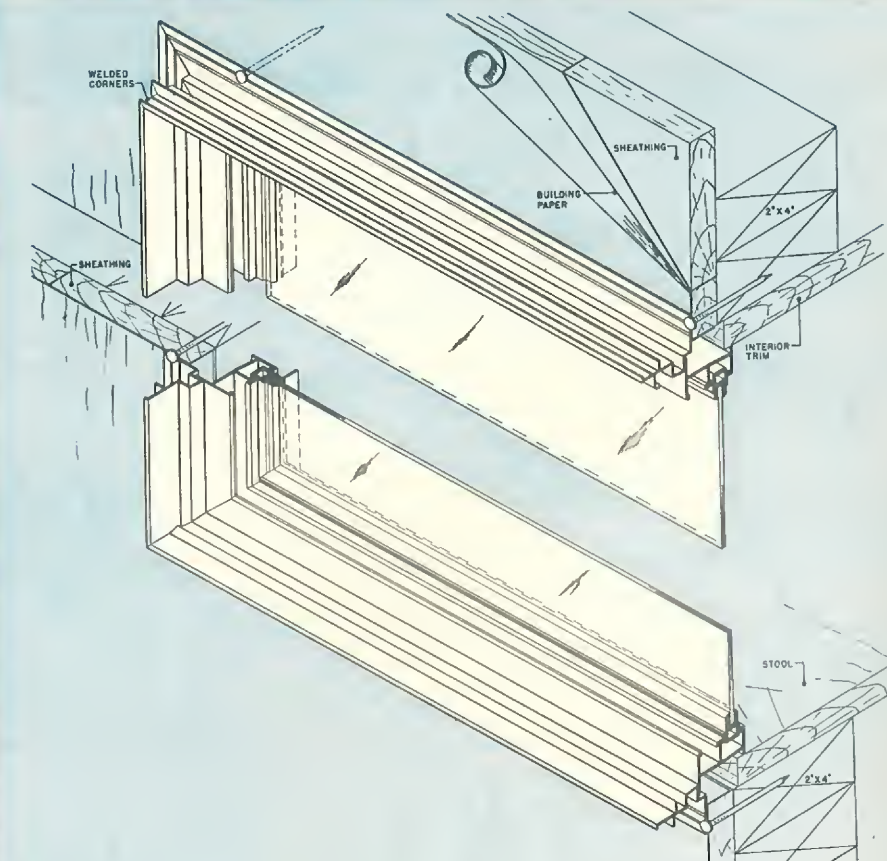
1 Rough window opening is prepared as usual.



2 Set window frame with FIN-TRIM in position, plumb and square.



3 Drive home 10 nails — through holes already in Fin.



Installation of ALWINTITE sliding windows with FIN-TRIM is quick, easy and economical. The rough frame opening is prepared as usual. Window frames with FIN-TRIM already added are then set in place, made square and nails are hammered home. That's all there's to it, except bringing your exterior siding material—shingles, clapboard, brick veneer or other materials—right up to the "trim stop." Apply caulking material and the job's done. No accessories are needed—no special sills, no exterior wood trim or casing to buy or apply.



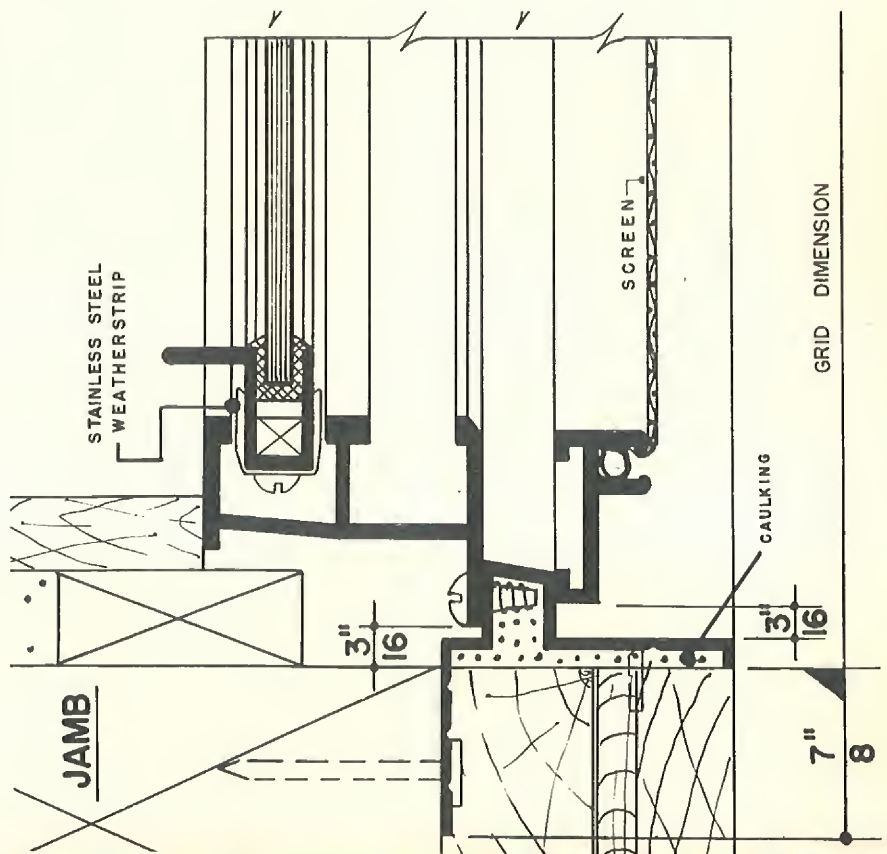
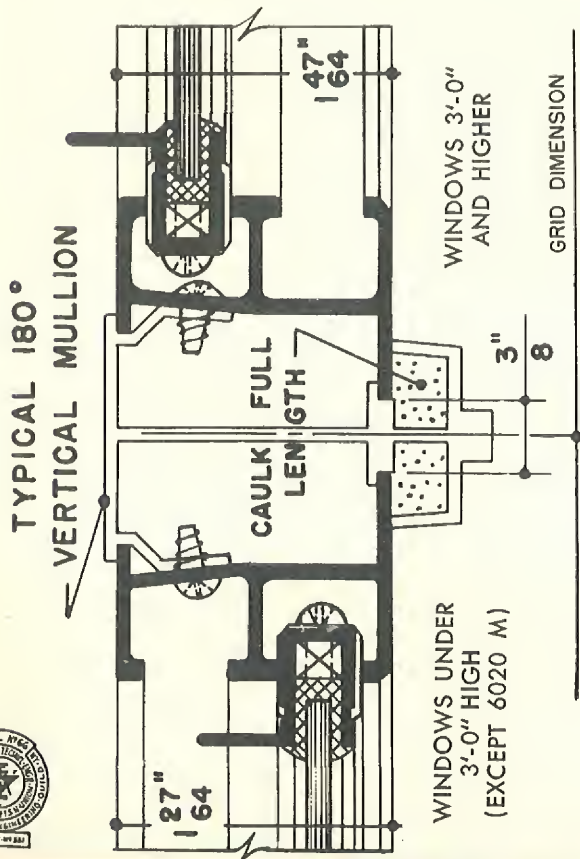
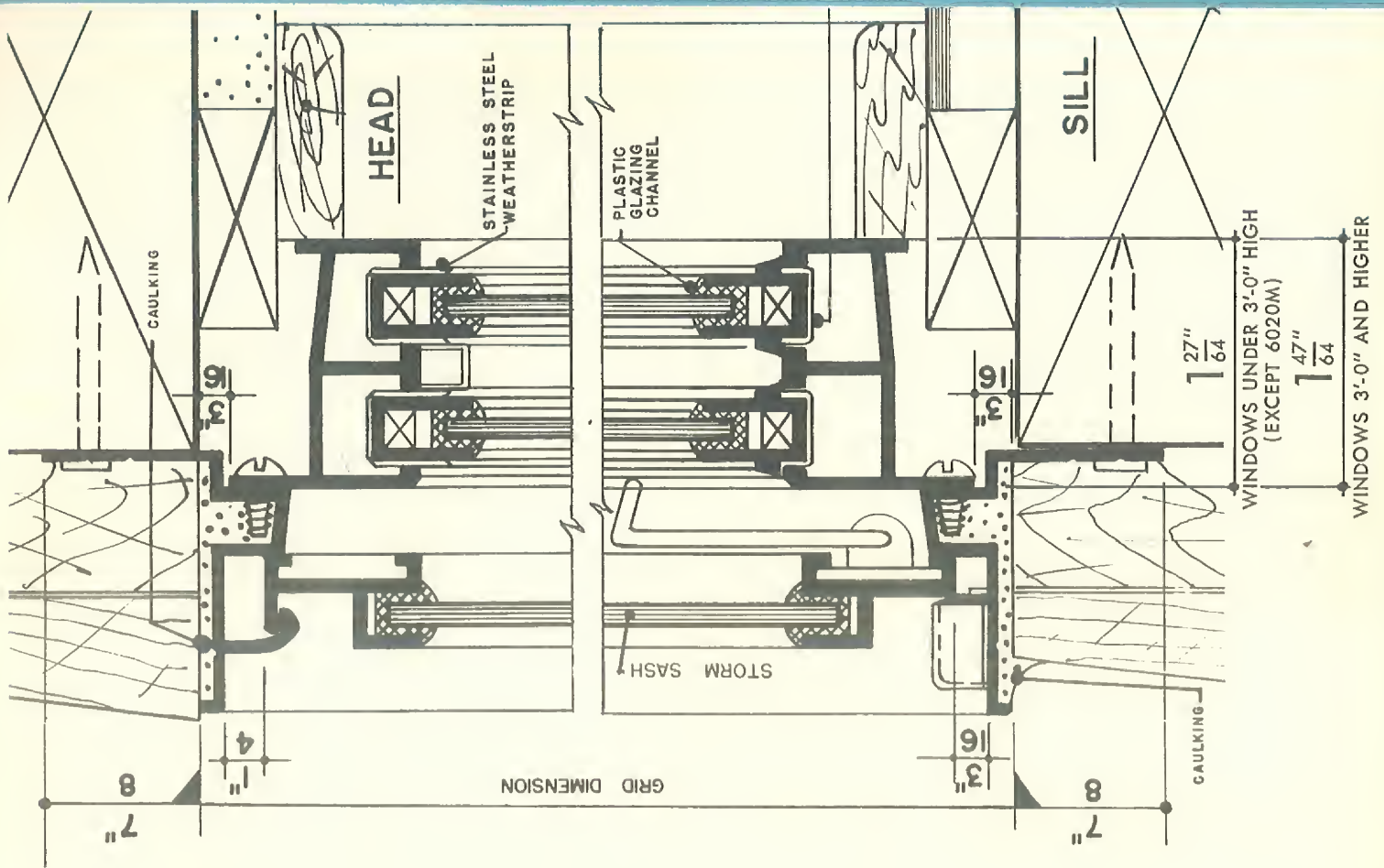
4 Run siding material up to Trim Stop. No exterior wood trim is needed.



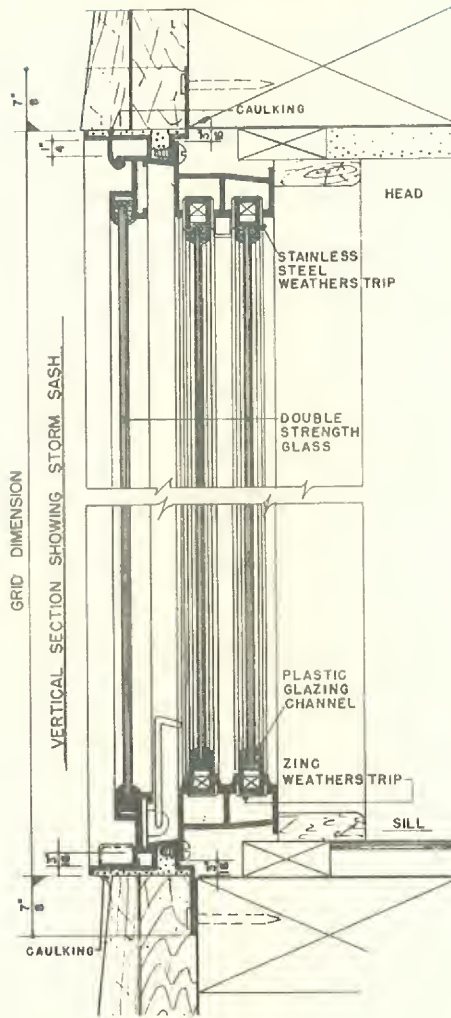
5 Caulk and put sliding sash units in place. Job is complete.

FULL SIZE DETAILS
HORIZONTAL SLIDING WINDOWS
 WITH FIN-TRIM FRAME

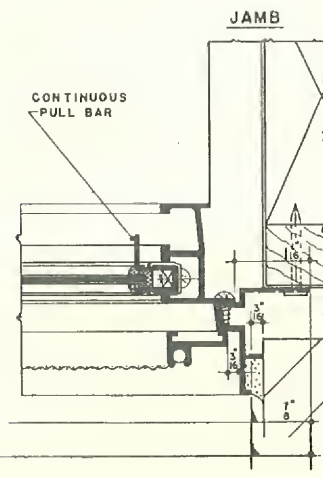
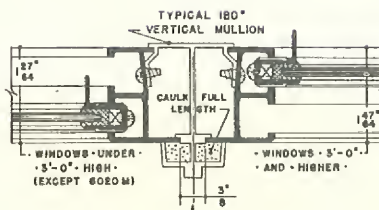
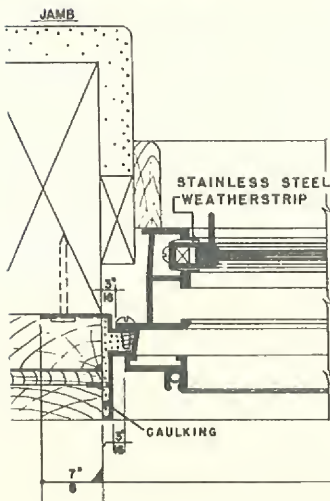
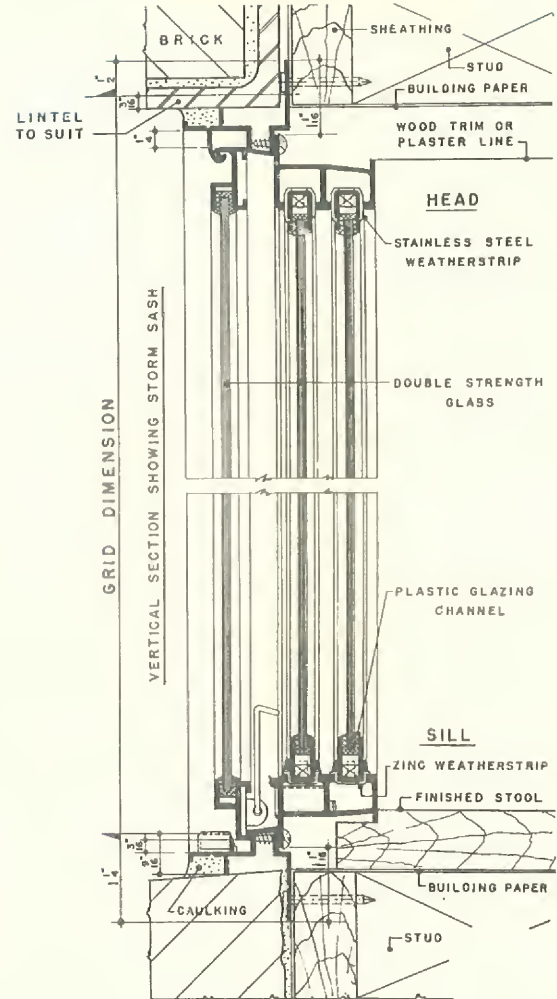
ALWINTITE®



FRAME



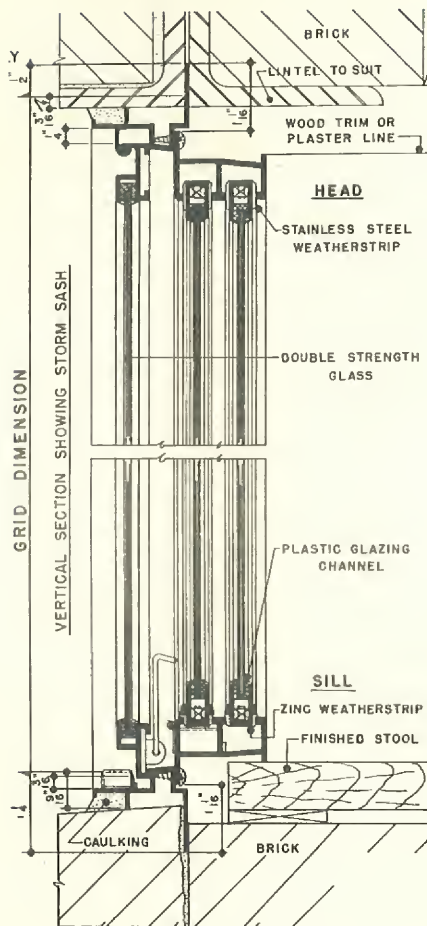
BRICK VENEER



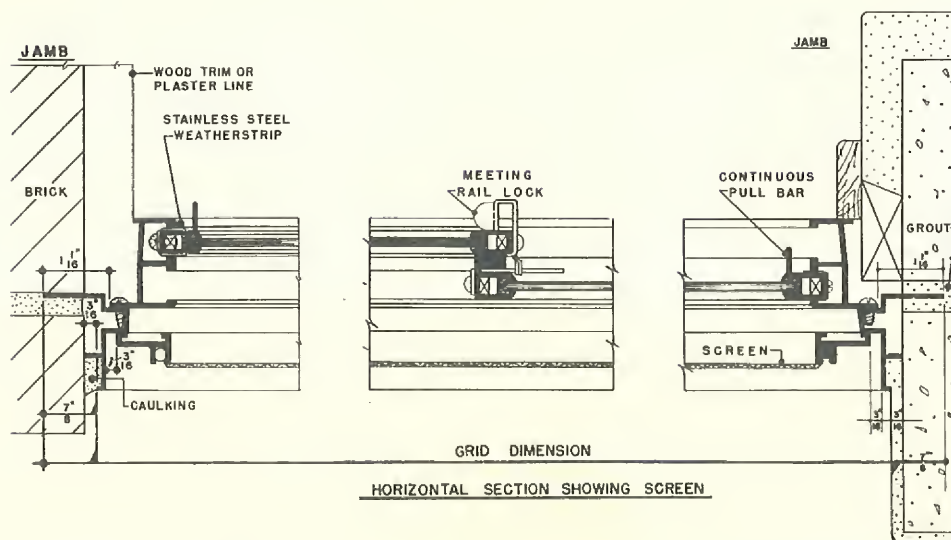
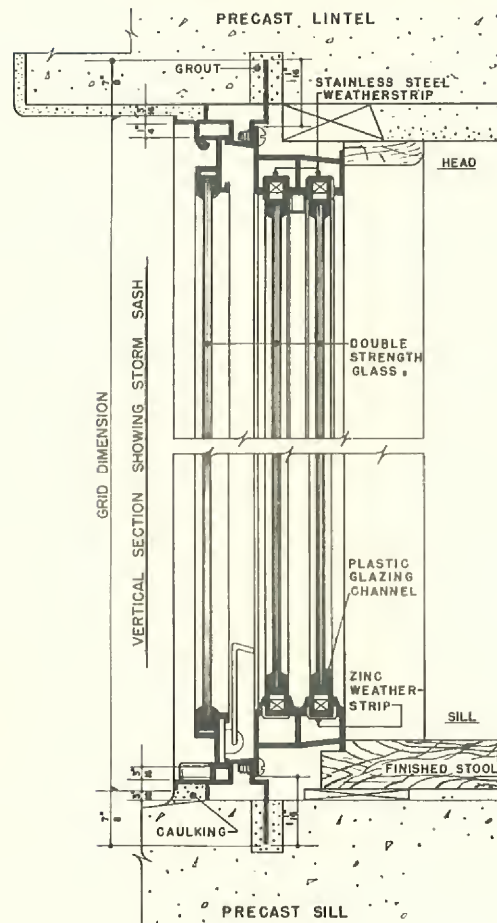
INSTALLATION DETAILS **HORIZONTAL SLIDING WINDOWS** WITH FIN-TRIM FRAME

ALWINTITE®

SOLID BRICK

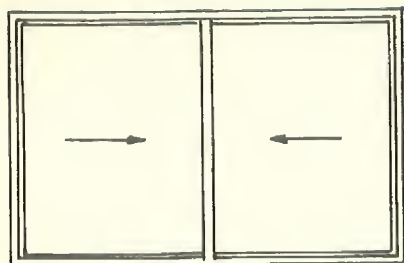


CONCRETE BLOCK



ALWINTITE®

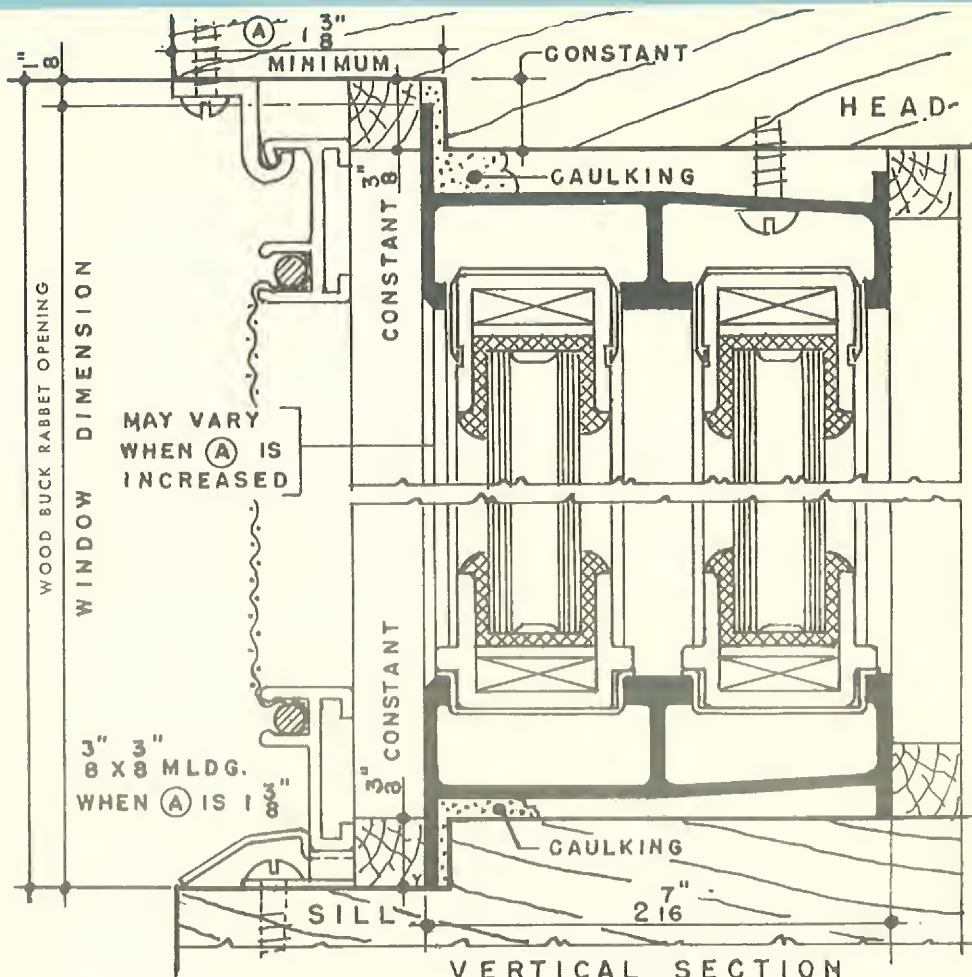
FULL SIZE DETAILS HORIZONTAL SLIDING WINDOWS WITH INSULATING GLASS



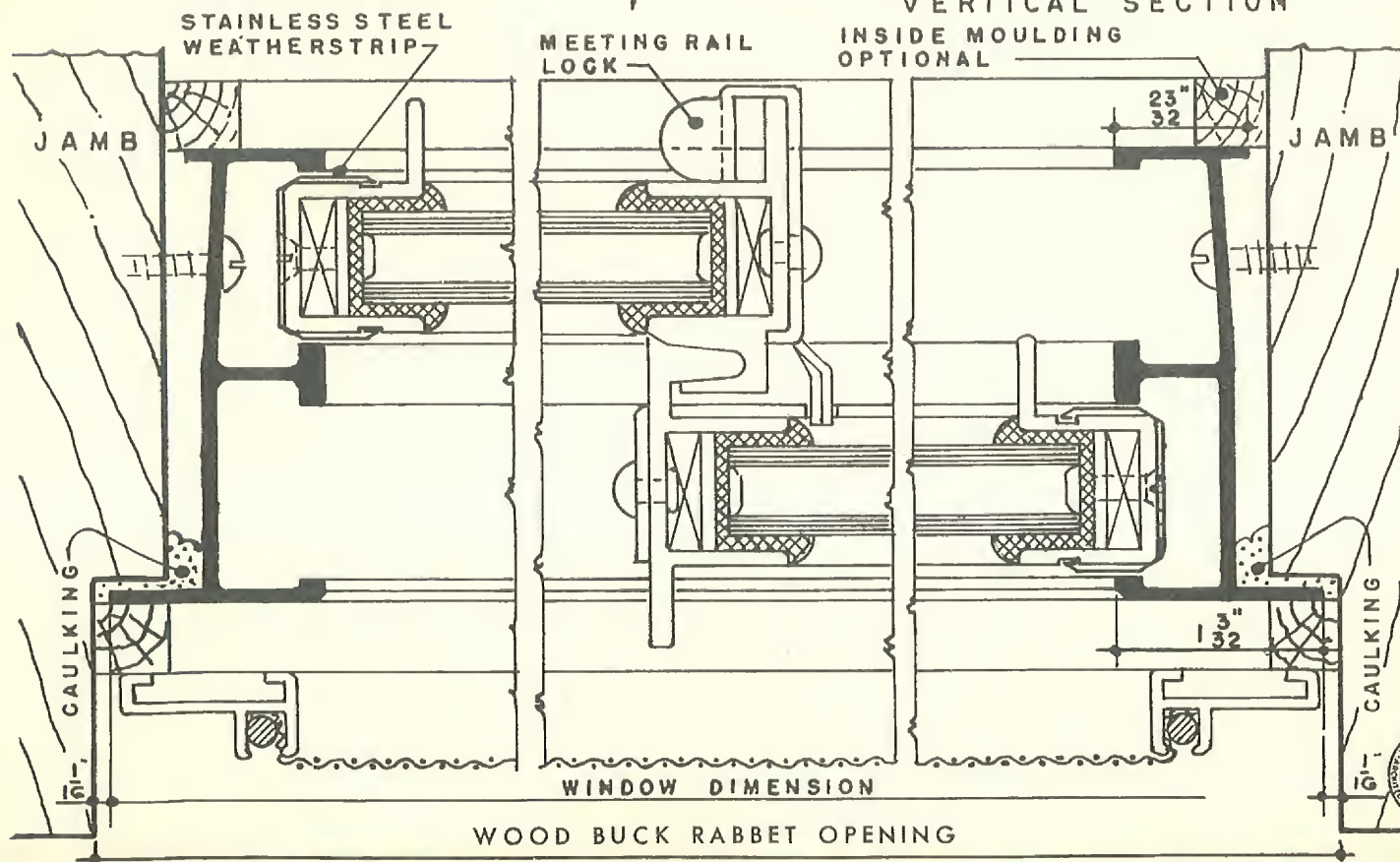
ELEVATION

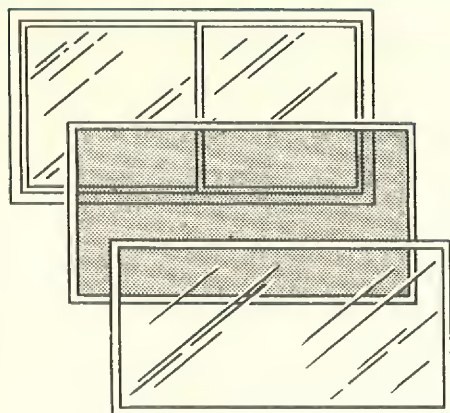
AVAILABLE FOR GLAZING WITH
1/2" THICK THERMOPANE
OR EQUAL FOR PANEL WINDOW
SYSTEMS IN THE FOLLOWING SIZES:

TYPE	WOOD BUCK RABBIT OPENING
3020S	3'-0 1/4" x 2'-0 1/4"
3921S	3'-9 3/4" x 2'-1 3/4"



VERTICAL SECTION





SCREEN and STORM SASH for Alwintite Sliding Windows

Special ALWINTITE full-size screens and storm sash made from strong extruded aluminum sections are available for all sizes of ALWINTITE horizontal sliding windows. Storm sash and screen brackets are easily installed in upper section of window framing. Sill clips with stay bars for storm windows are fastened to lower section of window framing. Screens come complete with ALCLAD aluminum wire screening. Storm sash come complete, ready for easy installation.

SPECIFICATIONS

ALUMINUM HORIZONTAL SLIDING WINDOWS

General: The horizontal sliding windows shown on the architect's drawings shall be the "Alwintite" aluminum sliding windows as manufactured by the General Bronze Corporation (Alwintite Division), Garden City, New York.

Materials: The frame and sash shall be manufactured from 63S-T5 extruded aluminum alloy having a minimum thickness of .062 inch. The weatherstripping shall be manufactured from stainless steel having a minimum thickness of .005 inch. The combination weatherstripping and anti-friction sliding contact shall be manufactured from zinc having a minimum thickness of .018 inch. The glass settings in the sash shall be manufactured from extruded vinylite. Screws used for the assembly or installation of the window shall be of aluminum or stainless steel.

Construction: The frame of the window shall be of one-piece construction, welded at the corners. The sill of the frame shall be designed to facilitate cleaning and be provided with weep holes to drain the guides. Fittings shall be provided for securing the frame to the adjacent building construction.

The sash shall be designed to slide in the grooves at the sill of the frame on the combination weatherstrip and anti-friction contact in a manner that will prevent contact between aluminum. The sash are to be removable from the frame without the necessity of dismantling parts of the frame. When the sash are closed and locked, it shall be impossible to remove them from the frame.

The vertical meeting stiles of the sash shall be designed with interlocking contacts to insure weather resistance when closed and locked, and a suitable catch is to be provided on the meeting stiles for this purpose. The jamb stiles and top rails of the sash shall be provided with stainless steel weatherstripping, and the bottom rails of the sash shall be provided with zinc combination weatherstripping and anti-friction sliding contact.

The sash members shall be designed to receive the glass which is to be installed in extruded vinylite to eliminate the necessity for the use of glazing compounds or separate metallic glazing members. The corners of the sash are to be fitted to hairline joints in a workmanlike manner and be secured by means of corner connections which can be conveniently disassembled to facilitate glazing.

Air Infiltration: The infiltration of air through the window shall not exceed one-half cubic foot per minute per linear foot of sash perim-

eter during a wind of twenty-five miles velocity. Satisfactory evidence of compliance must be furnished to the architect.

Finish: The windows are to be finished in the natural aluminum color. After fabrication, surface blemishes, scratches and tool marks are to be removed and the exposed surfaces are to be cleaned to a uniform color and texture. A protective coating of transparent lacquer is to be applied to the windows before shipment from the factory. The lacquer must be such as will withstand the action of lime mortar for a period of at least one month in an atmosphere of 100% relative humidity at room temperature.

Installation: The window manufacturer is to furnish detail drawings for the installation of the windows. The frames of the windows may be installed independently of the sash and the glazed sash installed in the frames after the plastering has been completed, at the option of the contractor.

The installation contractor shall apply mastic or caulking compound, install the frames straight, plumb and level, and securely fasten them in place. Care must be exercised to prevent twisting of the frame or springing it in a manner that would cause the tracks to get out of alignment. After the windows are installed, they are to be adjusted, if necessary, to insure their efficient operation.

Glazing: The sash will be shipped knocked-down for assembly at the time of glazing. The glazing in vinylite settings and assembly of the sash is to be done on the bench. (Specify whether single or double strength glass is desired.) The glazed sash are to be inserted in the frames when so directed by the contractor.

OPTIONAL

FIN-TRIM

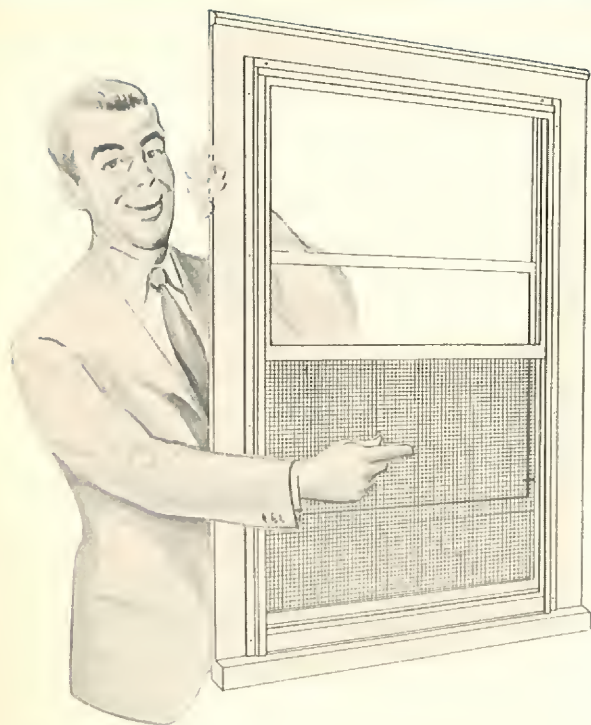
The jambs, head and sill of the windows are to be equipped with an extruded aluminum Fin-Trim of .050 inch minimum thickness. The Fin-Trim is to be securely attached to the window frame.

SCREENS AND STORM SASH

The horizontal sliding windows shown on the architect's drawings shall be equipped with "ALWINTITE" aluminum screens and storm sash as manufactured by General Bronze Corporation (Alwintite Division), Garden City, N. Y.

you can specify with confidence

ALWINTITE COMBINATION STORM WINDOW



TRIPLE CHANNEL

SELF STORING

FINGERTIP
OPERATION



CONTROLLED
VENTILATION

EXTRUDED
ALUMINUM

POSITIVE
LOCKING

Designed by window experts with a background of more than 40 years' experience, the ALWINTITE Combination Storm Window is, without question, the finest window of its kind. It is "tops" for beauty and design, "tops" for economy and value, "tops" for easy efficient operation, and "tops" for its sturdy, precision construction.

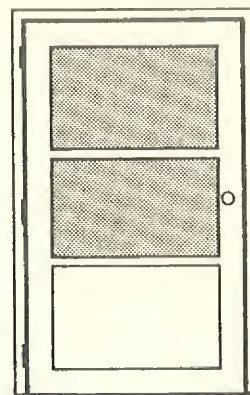
ALWINTITE's Triple Channel eliminates storage and changeover problems, permits all-weather ventilation control with freedom from drafts and heat losses. Strong, extruded aluminum sections used in both sash and frame. "Alclad" aluminum wire screening used in screen unit. No painting. No rust stains.

Recommend and specify ALWINTITE Combination Storm Windows for use with wood double-hung windows on your next modernization job. Sizes to fit most any double-hung window. Write for full details.

NEW! ALWINTITE Combination SCREEN and STORM DOOR

More than 2 years of research and development by General Bronze engineers have resulted in this new superior-quality Combination Screen and Storm Door. Embodying many new features in design and construction, the door combines rugged strength with everlasting beauty.

Because of material shortages, introduction of this new ALWINTITE door has been somewhat delayed. It is now expected, however, that it will soon be available through distributors and dealers handling ALWINTITE Combination Storm Windows. For additional information write to Dept. CW, Alwintite Division, General Bronze Corporation, Garden City, N. Y.



ALWINTITE AWNING-TYPE WINDOW

Due to material shortages under Government regulations, production of the new ALWINTITE Awning-type Window has been unavoidably delayed. It is expected, however, that as increased materials become available and the demand for this type window increases on the part of our customers and distributors, the ALWINTITE awning-type window will be put into production. For further information, write to Dept. AW, Alwintite Division, General Bronze Corporation, Garden City, N. Y.

THE HOME OF ALWINTITE

the world's largest aluminum window plant

This new, modern General Bronze Corporation plant at Garden City, N. Y., covers more than 5½ acres of land, provides 230,000 sq. ft. of manufacturing space and has a capacity of more than 4,000 aluminum windows per day.



WHAT YOU SHOULD KNOW ABOUT THE COMPANY BEHIND ALWINTITE

In selecting stock aluminum windows, there are three outstanding qualifications to guide all architects. They are (1) the basic design of the window; (2) its construction; and (3) the background of the company behind the product.

When you select and specify ALWINTITE aluminum windows, you can be sure of truly fine windows, carefully designed and precision manufactured by one of the largest manufacturers in the aluminum window field. These windows embody many exclusive patented features formerly found only in expensive, custom-built windows.

ALWINTITE aluminum windows are manufactured by the Alwintite Division of General Bronze Corporation, well known to architects and contractors for its manufacture of aluminum windows used extensively for schools, hospitals and public buildings of all types.

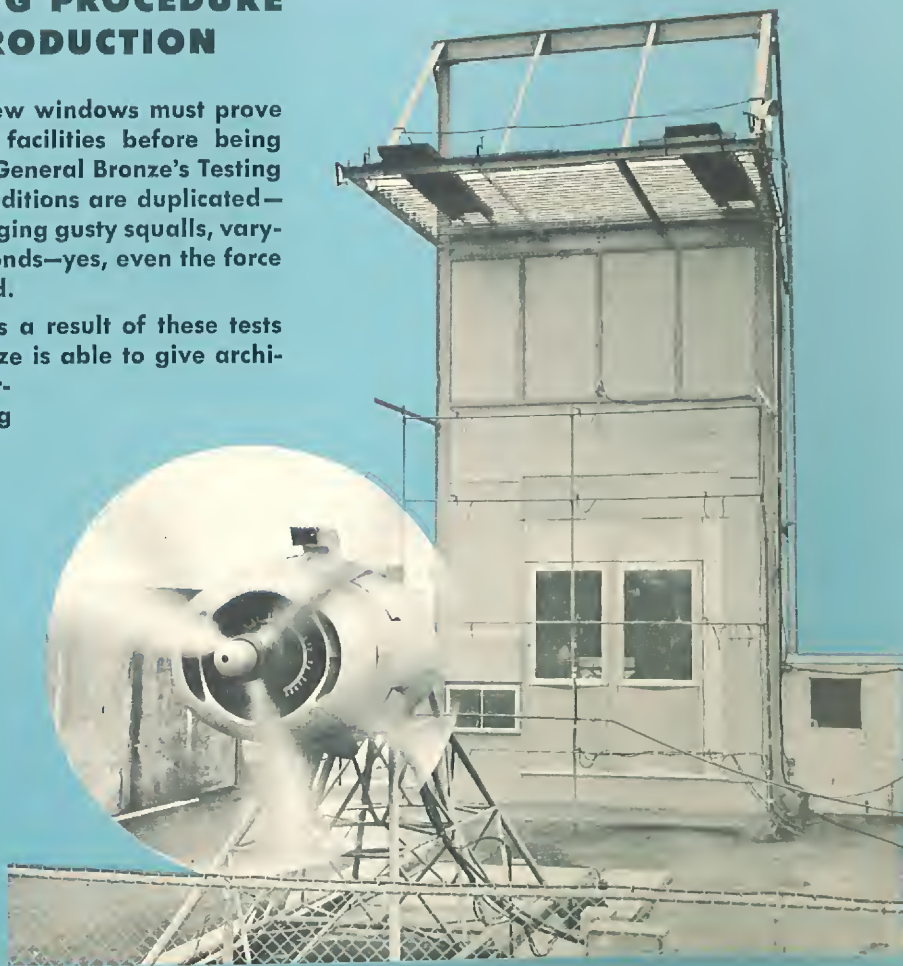
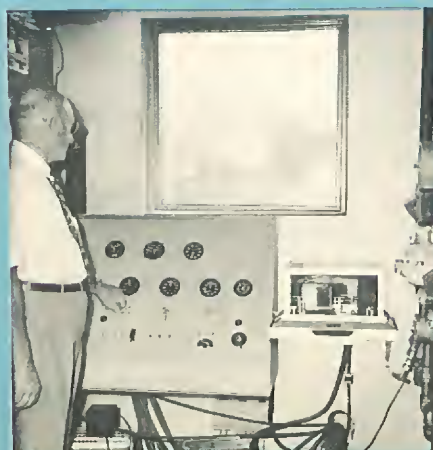
You can recommend and specify ALWINTITE windows for use in any project you plan—whether it be a large multi-family structure, or a small residence.

If you wish additional information, full size details, etc., on any window shown in this catalog, please write: ALWINTITE DIVISION, *General Bronze Corporation*, Garden City, N. Y.

GENERAL BRONZE TESTING PROCEDURE OF WINDOWS BEFORE PRODUCTION

General Bronze leaves little to chance. New windows must prove their weather-tightness in these testing facilities before being approved for the production line. Here in General Bronze's Testing Laboratory, varying types of weather conditions are duplicated—a steady drizzle, a driving rain, quick-changing gusty squalls, varying from 20 to 80 m.p.h. within a few seconds—yes, even the force of a 110 m.p.h. hurricane can be simulated.

The performance is carefully recorded. As a result of these tests and this testing equipment, General Bronze is able to give architects and builders the type of factual performance data they need when specifying ALWINTITE aluminum windows.



Authorized Distributors of ALWINTITE WINDOW PRODUCTS

ALABAMA

Smith-Kelly Supply Company
Royal & Charleston Sts., Mobile 9
Morton Sales Co., Inc.
782 South Hull St., Montgomery 2

ARKANSAS

Arkmo Lumber Company
1000 West Broadway, North Little Rock

CALIFORNIA

Pacific Glass Company
721 East 61st St., Los Angeles 1
East Bay Sash & Glass Company
78 Fifth Avenue, Oakland 6
Worden Floor Company
1643 Newton St., San Diego 13

CONNECTICUT

Igoe Brothers, Inc.
Lewis St. & Railroad, Plainville
Igoe Brothers, Inc.
Melrose & Barry Place, Stamford

DELAWARE

Diamond Ice & Coal Company
Vandever Ave. & Jessup St., Wilmington

DISTRICT OF COLUMBIA

The United Clay Products Company
931 Continental Bldg., Washington

FLORIDA

Mitchell & Alexander
411 Madison Ave., Daytona Beach
Mason Lumber Company
2324 Edison Ave., Jacksonville 1
Atlantic Consolidated Builders Supply Co.
3228 N. W. 27th St., Miami 42
Florida Steel Products, Inc.
1818 Atlanta Ave., Orlando 1
Taylor Sash & Door Company
Blount at Guillemarde, Pensacola
Florida Steel Products, Inc.
215 South Rome Ave., Tampa 1

GEORGIA

Campbell Coal Company
240 Marietta Street, N.W., Atlanta 1

IDAHO

Continental Lumber Company
29th & Railroad, Boise

ILLINOIS

Knoebel Iron Works, Inc.
1420 W. 76th St., Chicago 20
Wahlfeld Manufacturing Co.
1101 South Washington St., Peoria 2

INDIANA

Red Spot Paint & Varnish Co., Inc.
110 Main St., Evansville 8
Old Fort Supply Co., Inc.
709 Clay St., Fort Wayne
Midland Bldg. Industries, Inc.
907 E. Michigan St., Indianapolis 6
The Interstate Glass & Paint Co., Inc.
231 Lincoln Way E., South Bend 1

IOWA

Iowa Concrete Block & Material Co.
820 S.W. 9th, Des Moines 9

KENTUCKY

Midsouth Supply Co.
1101-1107 Delaware Ave., Lexington
Kentucky Mirror & Plate Glass Co.
822 West Main St., Louisville 2

LOUISIANA

National Sash & Door Co.
Hortman-Salmen Co., Inc.
601 North Dupre St., New Orleans 5
Shreveport Wholesale Building Material
2604-6 Southern Ave., Shreveport

MARYLAND

League Lumber Co., Inc.
701 S. Caroline St., Baltimore 31

MASSACHUSETTS

Stetson Window Corporation
60 Concord Ave., Belmont 78

MICHIGAN

Standard Bldg. Products Co.
14200 Cloverdale Ave., Detroit 4
S. A. Morman & Co.
300 Franklin St., S.W., Grand Rapids 2
Young Brothers & Daley, Inc.
712 E. Michigan Ave., Lansing 29

MINNESOTA

St. Germain Bros., Inc.
5-7 West First St., Duluth 2
Sewell Mfg. Co.
2288 University Ave., St. Paul 4

MISSOURI

Dan Truog & Clyde Nichols, Inc.
1730 Oak St., Kansas City 8
Klutho-Daah, Inc.
8865 Ladue Road, St. Louis 24

MONTANA

Building Service, Inc.
925 8th Avenue, No., Great Falls

NEW JERSEY

Ched-Co., Inc.
530 - 70th St., Guttenberg

NEW YORK

Home Builders Supply Co.
454 Madison Ave., Albany 3
Julius Oehrlein, Inc.
1873-1883 Bathgate Ave., Bronx 57
Igoe Brothers, Inc.
73 Metropolitan Ave., Brooklyn 11
Aluminum Bldg. Materials, Inc.
1807 Elmwood Ave., Buffalo 7
National Bldrs. Products Co., Inc.
73-10 88th Street, Glendale
Cameron Lumber Company
Newburgh
Bennel Co., Inc.
Church & Washington St., Northport
Keystone Bldrs. Supply Co., Inc.
85 Palm St., Rochester 15

NORTH CAROLINA

Delph Hardware & Specialty Co.
2109 Hutchinson Ave., Charlotte 6
Binswanger & Co., Inc.
Dunn Road, Route 301, Fayetteville
Dewey Brothers, Inc.
Goldsboro
Binswanger & Co., Inc.
211-221 S. Macon St., Greensboro

OHIO

Fred J. Crisp, Inc.
710 No. Main St., Akron 10
Durbrow-Otte Associates, Inc.
1426 Clay Street, Cincinnati 10
Askue Window Company
7609 Grand Ave., Cleveland 4
Acme Wood Products, Inc.
1549 Frebis Ave., Columbus 7
Dayton Bldrs. Supply Co.
800 E. First St., Dayton 2
Cement Products Company
369-389 Park Ave. E., Mansfield
Keagler Brick Company
1000 Stanton Blvd., Steubenville
Adam Loos Company
145 S. Erie St., Toledo 2

OREGON

Young and McClain, Inc.
1425 S.W. 13th Avenue, Portland 1

PENNSYLVANIA

G. F. Erich Co.
17th & Liberty Sts., Allentown
C. H. Herschick, Inc.
1513 N. Cameron St., Harrisburg
Bryant Air Conditioning Corp.
35 East Poplar St., Philadelphia 23
Limbach Company
521 Pressley St., Pittsburgh 12
Scranton Building Block Co.
600 Glen St., Scranton 9
Hostetter Supply Co., Inc.
40-60 Hoke's Mill Rd., York

SOUTH CAROLINA

Binswanger & Co., Inc.
1800 Laurel St., Columbia
Binswanger & Co., Inc.
219 Evans St., Florence

TENNESSEE

The Currin Co., Inc.
1208 Carter St., Chattanooga 1
Schubert Lumber Co.
1400 Block Washington Ave., Knoxville
Fischer Lime & Cement Co.
269 Walnut St., Memphis 1
Warren Brothers Company
7th Ave. & Harrison St., Nashville

TEXAS

Alco Supply Co.
4833 Greenville Ave., Dallas
Darbyshire Steel Co., Inc.
Paisano & Eucalyptus, El Paso
Geo. C. Vaughan & Sons
4802 Gulf Freeway, Houston 1
Geo. C. Vaughan & Sons
Nederland
Geo. C. Vaughan & Sons
628 Buena Vista St., San Antonio 7
Alamo Boiler & Machine Works
114 Franklin Ave., Waco

UTAH

U. S. Rock Wool Co.
160 So. Third St., Provo

VERMONT

Vermont Structural Steel Co.
207 Flynn Ave., Burlington

VIRGINIA

Construction Supply Corp.
426 W. 23rd St., Norfolk 10
Binswanger & Co., Inc.
3300-3330 West Leigh St., Richmond 21
C. Grady Cates
20th St. & Chapman Ave., S.W., Roanoke 4

WASHINGTON

Campbell-Greenway Co.
518 First Ave. S., Seattle 4

WEST VIRGINIA

Georgia Lumber Company
800-20 Bluefield Ave., Bluefield
Oscar F. Henry Co.
605 Delaware Ave., Charleston 22
Wholesale Distributors of W. Va., Inc.
Parkersburg
W. E. Britt & Company
Board of Trade Bldg., Wheeling

WISCONSIN

Geo. J. Hoffer Glass Co.
613 W. College Ave., Appleton
W. H. Pipkorn Company
1548 West Bruce St., Milwaukee 46

FOREIGN

C. Dowell & Sons, Pty. Ltd.
Nicholsen & Schotchner Sts.
North Fitzroy, Melbourne, Australia
Lewers & Cooke, Ltd.
P. O. Box 2930, Honolulu 2, Hawaii

September, 1952

**ALWINTITE DIVISION
GENERAL BRONZE CORPORATION
GARDEN CITY, NEW YORK**